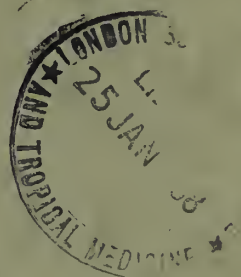


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*Mr Swinson*  
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# Rural District Council of Dartford



## REPORT

ON CERTAIN MATTERS  
CONCERNING

## Public Health

FOR THE YEARS

1959

and

1960





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## S U M M A R Y

The increase in the population in 1959 was the greatest on record.

The number of births in 1960 was the highest recorded and the adjusted birth rate was the highest since 1947.

The number of deaths in 1960 and the adjusted death rate were comparatively low. The pattern of death was that to be expected in an area of South-East England well provided with social services.

Deaths for the years 1951-59 have been classified to cause and occupation to see if social gradients are discernible here.

1960 was singularly free from influenza.

In 1959 there was an outbreak of Sonne dysentery at a village school.

In 1960 there was an outbreak of food poisoning due to *S. typhi-murium*.

Vaccinations against poliomyelitis, smallpox, diphtheria and whooping cough gave rates which gave cause for satisfaction.

Revaccination of school children against smallpox remained non-existent.

By the end of 1960 there remained only a few known unfit houses needing consideration for demolition or closure.

In 1960 the number of caravans licensed in the district quadrupled the figure for 1955.

In 1960 it was concluded that the slaughterhouses of this district could not be expected to comply with the new regulations.

In 1960 work on the Hartley/Longfield/New Barn sewerage scheme was begun.



RURAL DISTRICT COUNCIL OF DARTFORD

Report for the Years 1959 and 1960 on  
Certain Matters concerning Public Health

December, 1961.

To THE CHAIRMAN AND MEMBERS OF THE  
RURAL DISTRICT COUNCIL OF DARTFORD.

Mr. Chairman, Ladies & Gentlemen,

INTRO- As soon as practicable after the end of each year it is the  
DUCTION duty of a medical officer of health to make to the local authority  
a report for that year on the sanitary circumstances, sanitary  
administration, vital statistics and other public health matters  
concerning their district. On this occasion it has been expedient  
to provide a report covering two years.

Below are my observations on certain public health matters  
and on the statistical material concerning these two years.

POPULATION The marked upward trend of the population, largely through  
immigration, has continued, reaching a peak in 1959. The number  
of houses built in 1960 was less than in the previous two years  
and, no doubt, if this housing trend continues the annual increase  
in the population through immigration will continue to diminish.

More noteworthy was the upward trend of natural increase,  
that is the excess of births over deaths, which by 1960 was three  
times the figure usual at the beginning of the decade.

BIRTHS With the arrival of young families into the district from  
neighbouring urban areas we should certainly expect the crude birth  
rate to increase and this it certainly has done. More significant,  
however, is the increase of the adjusted birth rate as the adjust-  
ment makes a correction for the young age of our population. This  
adjusted rate began to overtake the national rate in 1955 and is  
now appreciably larger than the latter.

|                              | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|------------------------------|------|------|------|------|------|------|
| Births - Rural District      | 627  | 770  | 848  | 941  | 979  | 1068 |
| Adjusted birth rate - R.D.   | 15.2 | 16.8 | 18.9 | 19.4 | 19.2 | 19.6 |
| Birth rate - England & Wales | 15.0 | 15.7 | 16.1 | 16.4 | 16.5 | 17.2 |

The increased birth rate of England and Wales is due to earlier  
marriage and a reduced time interval between births. It may also  
be due to a desire for larger families.

In 1959 and 1960 325 and 362 births respectively took place at home, giving percentages of 33% and 34%. In Dartford Borough the percentages were 23% and 25%. In this maternal and child welfare area, containing this rural district and four neighbouring urban districts, the percentages were 23% and 25%. In England and Wales the percentages were 36% and 35%. When the cases are selected for hospital confinement according to the practice recommended by the Maternity Services Committee about 30% are born at home.

## DEATHS

In the three years 1958, 1959 and 1960 the number of deaths was 493, 483 and 456 respectively, the high figure for 1958 being due to Asian influenza in the first quarter. The deaths for these years are in keeping with the trend shown in the sickness statistics of the Ministry of Pensions and National Insurance. In 1959 these showed a peak attributed to influenza in the first quarter but in 1960 showed an even distribution throughout the year with no emphasis on the first or any quarter.

The percentages of those of over 75 years of age who died at home in 1959 and 1960 were 52% and 50% respectively, while in the neighbouring Dartford Borough the percentages were 38% and 34%.

## Diseases of the Respiratory System

The number of deaths from respiratory diseases in 1959 and 1960 was 68 and 53 respectively and these figures were nothing out of the ordinary.

There was some influenza in 1959 and the respiratory deaths for the first quarter do, to some degree, reflect this; the number of respiratory deaths for the last four years being as follows:-

|                                         | Deaths in first quarter     |                   |
|-----------------------------------------|-----------------------------|-------------------|
|                                         | <u>Respiratory diseases</u> | <u>All causes</u> |
| 1957                                    | 23                          | 138               |
| 1958 (aftermath of Asian influenza '57) | 33                          | 174               |
| 1959 (influenza A)                      | 28                          | 157               |
| 1960                                    | 20                          | 127               |

Aged respiratory mortality (i.e. the percentage of respiratory deaths to deaths from all causes) in these years was as follows:-

|                            |      |   |      | <u>First Quarter</u> | <u>Year</u> |
|----------------------------|------|---|------|----------------------|-------------|
| Aged respiratory mortality | 1957 |   |      | 16%                  | 14%         |
| "                          | "    | " | 1958 | 28%                  | 19%         |
| "                          | "    | " | 1959 | 21%                  | 17%         |
| "                          | "    | " | 1960 | 14%                  | 14%         |

## Cancer of the Lung

Cancer of the lung caused 26 deaths in 1959 and 23 in 1960. These included 2 and 1 deaths from mental hospitals respectively. There were 11 deaths from this cause in 1957 and 11 in 1958.

The death rates in 1959 and 1960 were 0.52 and 0.44 per thousand. The death rate in 1959 and 1960 for England and Wales was 0.46 and 0.48, for London the figures were 0.64 and 0.70.

#### Coronary Disease

The 66 deaths from coronary disease in 1959 and 101 in 1960 give rates of 1.33 and 1.92 per thousand population respectively. The death rate was 1.87 and 2.01 for England and Wales in 1959 and 1960 respectively.

#### Deaths through Violence

Motor Vehicle Accidents - these were as follows:-

| 1959 | Age      | Sex | Type of Accident                                 |
|------|----------|-----|--------------------------------------------------|
|      | 30 years | M   | Motor scooter/motor lorry                        |
|      | 30 years | M   | Motor cycle/motor car                            |
|      | 36 years | M   | Motor cycle/motor car                            |
|      | 38 years | M   | Motor cycle/motor cycle and motor car            |
|      | 40 years | F   | Motor car/motor lorry                            |
|      | 49 years | M   | Pedal cycle/stationary motor car/<br>motor lorry |
|      | 50 years | M   | Pedal cycle/motor cycle                          |
|      | 50 years | M   | Motor car/motor car                              |
|      | 51 years | F   | Motor car/motor car                              |
|      | 55 years | F   | Pedestrian/motor cycle                           |
|      | 56 years | M   | Pedal cycle/motor lorry                          |
|      | 60 years | M   | Pedestrian/motor lorry                           |
|      | 67 years | M   | Moped/motor car                                  |
|      | 69 years | F   | Pedestrian/motor car                             |
|      | 77 years | M   | Pedestrian/motor car                             |
| 1960 | 19 years | M   | Motor car                                        |
|      | 19 years | M   | Pedal cycle/motor van                            |
|      | 23 years | M   | Motor car                                        |
|      | 29 years | M   | Motor scooter/motor car                          |
|      | 33 years | M   | Motor cycle/motor car                            |
|      | 62 years | M   | Motor car/motor lorry                            |
|      | 73 years | M   | Pedestrian/motor car                             |
|      | 73 years | M   | Pedestrian/motor car                             |

Other Accidents - these were as follows:-

|      | Age       | Sex | Type of Accident                          |
|------|-----------|-----|-------------------------------------------|
| 1959 | 3 hours   | F   | Drowned                                   |
|      | 8 years   | F   | Burns from nightdress on fire             |
|      | 33 years  | M   | Drowned while bathing                     |
|      | 36 years  | M   | Fell overboard                            |
|      | 37 years  | M   | Anaphalaxis due to wasps stings           |
|      | 38 years  | M   | (Inmate of mental hospital) Asphyxia      |
|      | 63 years  | M   | Run over by tractor on farm               |
|      | 72 years  | F   | Fall at home                              |
|      | 78 years  | M   | Fall at home                              |
|      | 83 years  | F   | Fall                                      |
| 1960 | 10 months | M   | Asphyxia, inhaled aspirin tablet 30.9.59. |
|      | 17 months | F   | Fall down stairs at home                  |
|      | 6 years   | M   | (Inmate of mental hospital) Asphyxia      |
|      | 57 years  | M   | " " " " Fall                              |
|      | 67 years  | F   | " " " " Fall                              |
|      | 79 years  | M   | Fall at home                              |
|      | 85 years  | M   | Fall at aged persons' home                |

Suicide - in 1959 there were 2 and in 1960 there was 1.

Deaths re-  
lating to  
the Wel-  
fare of  
Mothers &  
Infants

Maternal deaths - during these two years there was none.

Still births - the number of still births in these two years was 13 and 26 respectively, these figures are not unusual.

Infant deaths - the death rates for these years of infants before and after birth compare favourably with the rates for the country as a whole.

The causes of the infant deaths in 1959 were as follows:-

Less than 1 day old - immaturity 2, drowning 1, haemolytic disease 1.

1 to 6 days old - immaturity 2, congenital malformation 1.

7 to 27 days old - congenital malformation 1, strangulated hernia 1.

28 to 364 days old - congenital malformations 2.

In addition to the above there was a death of an infant less than 1 day old from congenital malformation wrongly assigned to Dartford Borough by the Registrar General but which has been included in the locally compiled statistics. All the above died in hospital except 2.

The causes of the infant deaths in 1960 were as follows:-

Less than 1 day old - Rhesus incompatibility 1, immaturity 5, congenital malformation 1, foetal intra-uterine distress 1.

1 to 6 days old - congenital malformation 1, volvulus 1, adrenal haemorrhage 1, asphyxia 1, birth trauma 2, immaturity 1.

7 to 27 days old - congenital malformation 3, meningitis 1.

28 to 365 days old - immaturity 1, gastro-enteritis 1, inhaled aspirin tablet 1, congenital malformation 1.

All of the above died in hospital with the exception of the case of gastro-enteritis. This child did not attend the child welfare clinic.

One 11 year old child died from rheumatic heart disease in 1960. He was from a family leading an unsettled caravan life.

#### OCCUPATIONAL MORTALITY

As has been explained in previous reports, the Registrar General has classified occupations into the following social groups:-

Class I - Professional, etc., occupations

II - Intermediate occupations

III - Skilled occupations

- (a) Mineworkers
- (b) Transport workers
- (c) Clerical workers
- (d) Armed forces
- (e) Others

Class IV - Partly skilled occupations

- (a) Agricultural workers
- (b) Others

V - Unskilled occupations

- (a) Building and dock labourers
- (b) Others

Unclassified

X - Retired or pensioned (including inmates of mental hospitals, aged persons' homes, etc.)

981 - Persons who follow an occupation outside the United Kingdom.

The Registrar General has shown rising gradients of mortality in the classes from I to V in certain causes of death, e.g. respiratory tuberculosis, cancer of the stomach, cancer of the lung, heart disease other than coronary, bronchitis, ulcer of stomach and duodenum, accidents at home and on the road.

He has shown downward gradients of mortality from classes I to V in vascular lesions of the nervous system, hypertension and coronary heart disease.

Here we have been classifying our deaths since 1951 to see how the pattern in Dartford Rural District conforms with that of England and Wales and our results are summarised in tables VIb and VIId.

Although our classification has precisely followed that laid down by the Registrar General the size of our population makes our figures only capable of rough interpretation. We need to amalgamate classes I and II and to discard causes of death to which less than twenty deaths have been allocated. We have to use the proportion of deaths from one cause to that from all causes to show the gradients that exist. The proportions in each class can then be given as a percentage of the proportion shown by all classes. The Registrar General does a similar calculation for all occupied and retired men aged 65 and over.

Our figures can be seen to present a picture similar to that obtained by the Registrar General for England and Wales. If we take two of the diseases mentioned above the Registrar General's figures are as follows:-

Males aged 65+

| 1950                   | All | I   | II  | III | IV  | V   |
|------------------------|-----|-----|-----|-----|-----|-----|
| Coronary heart disease | 100 | 150 | 116 | 101 | 85  | 81  |
| Bronchitis             | 100 | 50  | 72  | 103 | 107 | 130 |

Our locally compiled figures are:-

|                           |     |          |     |     |     |
|---------------------------|-----|----------|-----|-----|-----|
| Males all ages<br>1951-59 | All | I and II | III | IV  | V   |
| Coronary heart<br>disease | 100 | 116      | 103 | 95  | 92  |
| Bronchitis                | 100 | 68       | 99  | 125 | 120 |

In this Rural District the high proportion of deaths from bronchitis in class IV is of interest as here this class is mainly composed of agricultural workers.

### INFECTIOUS DISEASES

#### Virus Infections

#### POLIO- MYELITIS

One case of poliomyelitis occurred in 1959, none in 1960. This case was paralytic, virus type 1, but she made a rapid recovery. She had had three inoculations of vaccine.

The vaccination against poliomyelitis by the Local Health Authority in this district produced a percentage in 1960 of 64% of the child population who had had three inoculations, which figure gives cause for some satisfaction.

#### MEASLES

Measles made its expected appearance in accordance with the biennial pattern.

#### INFLUENZA

Influenza arrived in this district in February 1959, and stayed until March, as it did in the rest of the country.

1960 was singularly free from any such epidemic.

In order to be prepared for an outbreak of influenza the following signs are watched for: the appearance of the disease in other parts of the world (which usually occurs perhaps months before appearing in this country), the presence of the virus in other parts of this country, any unusual increase in the deaths from respiratory infection and the periodicity of the disease.

It must be remembered that influenza-like illnesses are caused by viruses other than the influenza group of viruses and this causes difficulty in detecting true influenza. When influenza has arrived we have in the past collected biological material to identify the virus. By these means familiarity with the pattern of the disease is acquired.

In recent years vaccination against influenza has been under investigation. In 1959 vaccines were made available on a commercial scale, and this received publicity in certain newspapers. The Public Health Committee discussed this subject and the guidance of the Chief Medical Officer of the Ministry of Health was obtained.

#### SMALLPOX

Infant vaccination rates showed an appreciable upward trend and compared favourably with other areas. The increase in infant vaccinations was largely due to the increased number of vaccinations done at the clinics, the figures for 1957, 1958 and 1959 being 154, 194 and 401.

Revaccination of school children remained negligible.

#### Bacterial Infections

#### DIPHTHERIA

1960 was the twelfth year in succession in which no diphtheria occurred in this district.

The infant vaccination rate showed an upward trend and the figures compared favourably with other areas.

#### WHOOPING COUGH

Again a high percentage of infants received vaccination against whooping cough and the figures compared favourably with those elsewhere.

#### DYSENTERY

In 1959 an explosive outbreak of dysentery occurred in a village school which resulted in 64 out of the 79 pupils becoming ill within a period of about ten days.

The Council's Public Health Inspectors visited the affected households and 37 out of the 38 specimens they obtained were shown by the laboratory to contain the organism of Sonne dysentery. It seemed likely that the outbreak resulted from the infection of a school meal through a child's infected clothes.

A full report on this incident was prepared at the time.

#### FOOD POISONING

At the end of August and beginning of September, 1960, 40 cases of gastro-enteritis having some connection with Sutton-at-Hone came to our knowledge. 4 cases were admitted to hospital and one child died at home.

27 cases revealed *S. typhi-murium* on culture and 9 of these cultures were 'phage typed and all found to belong to type 2c.

A common feature amongst most of those affected was the consumption within the twenty-four hours preceding onset of cream pastries from a local bakery.

The infection took several weeks to clear and in one person, a food handler, the infection was present for six months. This person was prohibited from engaging in part time work of food handling during this time and was compensated for loss of earnings by Dartford Rural District and Dartford Borough Councils.

A full report on this incident was made at the time.

TUBERCULOSIS  
RESPIRATORY

As will be seen from the tables, there was nothing unusual in these two years. The causes of death relating to tuberculosis are commented upon fairly fully because the circumstances of documentation illustrate the complexities of keeping this chronic disease under statistical observation. Tuberculosis receives attention by epidemiologists who study the annual number of notifications received and the numbers on the tuberculosis register. However, it is only where close attention is given that the figures can be sound and only those who are acquainted with the work of recording these figures can assess their reliability.

In view of the greater effectiveness of treatment of tuberculosis, mortality does not now measure the incidence of the disease as hitherto. Moreover as the Chest Physician rarely certifies the cause of death tuberculosis, at times, fails to receive due emphasis as a contributory or underlying cause. Thus the importance of notification as an indicator of the pattern of the disease is enhanced. Yet there is no legal definition of the type of case to be notified, there are differences of view on which medical officer of health should receive the notification, the Registrar General asks for a practice to be followed in which duplication in the returns can arise.

Although it is necessary for a universal code of registration to be followed, no such code now exists. There is no uniform practice concerning the removal of names from the register.

In 1952 the Minister stated that the essential registers were those kept by the clinics, in 1959 this responsibility was placed on the Local Health Authority. However, we continue to keep a register here as this is the only way in which we can inform ourselves of the state of tuberculosis in the district and every medical officer of health has a duty to inform himself as far as practicable respecting matters likely to affect the public health in his district.

Even with complete notification, one essential gap remains. There is no provision in the form of notification for an opinion on patients' infectiousness yet this is the essence of the tuberculosis problem. This information is necessary to measure the size of the "infector pool" but even if it were given it could not be used for preventive purposes as it is confidential.

In spite of these many defects it is possible to observe the trend of the disease but in view of its importance greater precision could be and should be attained.

## ACCIDENTS IN THE HOME

The number of persons receiving in-patient treatment in the Dartford Group of Hospitals showed an increase in 1960 compared with previous years. We had two tragedies concerning children; in 1959 a child died from burns owing to the ignition of her night-dress from an open fire; in 1960 an infant died from asphyxia through the inhalation of a 1 grain aspirin tablet.

In 1960 figures for falls in the over 65 age group showed a noteworthy increase.

At the end of 1959 the Council accepted the proposals of the Local Health Authority with regard to the setting up of a local home safety committee. The constitution of the Road Safety Committee was reworded to incorporate home safety and the committee was renamed the Road Safety and Home Safety Committee.

## ENVIRONMENTAL CONDITIONS

### HOUSING

The number of houses built in 1959 and 1960 showed a drop compared with previous years. The number of families rehoused by the Council in the years under review continued to be around two hundred. About one eighth of the families rehoused are being re-houses with some priority on medical grounds.

The number of houses demolished or closed in the two years was 21 and 27 but they were largely the result of orders made in preceding years. The numbers of orders issued in 1959 and 1960 were considerably less than in previous years. By the end of 1960 there remained only a few known unfit houses needing consideration for demolition or closure.

There is evidence of change in the attitude to old properties and the tendency is to restore these old houses and improve them. Improvement grants encourage this tendency and result in improved amenities being provided. A large amount of work has been devoted by the Council's Public Health Inspectors to inspecting houses where improvement grant work is concerned and preparing their reports on the applications. It will be seen that the pattern of the improvement grants changed in 1960 in so far as a greater proportion were given as standard rather than discretionary grants.

### CARAVANS

The number of caravans licensed in the district has continued to increase and the number in 1960 quadrupled that for 1955. In October, 1960 the administration of this subject came under the new Caravan Sites and Control of Development Act, 1960.

One caravan problem here has always seemed in practice to be beyond the influence of legislation. This is the encampment of vagrants (it is misleading to call them gypsies) who scrape up a living in obscure ways and station their moveable homes on private land in the rural district without the permission of the land owners. In 1960, no adequate answer having been found to this problem, we made a recommendation to the Public Health Committee that a site should be acquired, provided with an accessible water supply and sanitary accommodation and should be rented to these vagrants. The Committee received this suggestion favourably but as this was a problem which concerned all rural districts, the Kent Branch of the Rural District Councils' Association was first consulted.

#### WATER

The water supplied to the householders in the district maintained generally the same wholesome quality as hitherto. There remained the little oddities of supply, as can be seen from the tables.

From the reports on the chemical analyses of the water from the Metropolitan Water Board wells in this district it will be seen that the fluoride content amounts to 0.2 p.p.m. whereas 1 p.p.m. is required for the preservation of teeth from decay.

In my annual report for 1950 I drew attention to the absence of fluorine in our water supplies and in 1960 we received an invitation from Tottenham Borough to support their view that no further time should be lost in implementing the fluoridation of public water supplies. The Council agreed to support Tottenham Borough Council's approach to the Ministry on this subject.

#### FOOD

Under the Slaughterhouses Act, 1958, we were required to report on the present slaughterhouse facilities in the district and on future requirements. Consultations were held with farmers, butchers, pig breeders and the relevant trade organisations and a meeting was held in May, 1960, at which fourteen representatives attended.

It was concluded that none of the premises used as a slaughterhouse in this district could be expected to comply with the construction regulations. The 1st April, 1962, was decided upon as the date when these regulations should be brought into force in order to provide time for the trade to formulate their own proposals for a slaughterhouse which would comply with the regulations.

The number of carcasses inspected by the Council's Public Health Inspectors remained at 100% of the animals slaughtered but the figures for the two years were appreciably lower than in the three

previous years. A case of suspected cysticercosis bovis infection is omitted from the section of the report on food. The carcase involved was put into the prescribed refrigeration but examination of the rejected part at the laboratory did not confirm the suspicion.

REFUSE TIPS  
OF OTHER  
LOCAL  
AUTHORITIES

The position was reviewed regarding the refuse tip at Longfield Hill, and the conclusion was formed that so long as the refuse was brought to the tip by rail transport compliance with the Council's byelaws was impossible. We were informed that the intentions of the Local Authority concerned were for their refuse to be transported to the tip by road as soon as arrangements could be made. About two years were needed to put these arrangements into effect.

AIR

The urban parts of the district were considered with a view to establishing a smoke control area and a pilot survey was carried out by the Council's Public Health Inspector in Swanley. This was reported fully to the Public Health Committee in 1960 and proposals were submitted to the Ministry for provisional approval, which was not obtained.

SWIMMING  
POOLS

"Swimming can be of immense service to the citizen. Its value from the life-saving and life-preserving standpoint requires no emphasis. Apart from this aspect, swimming is possibly the best method of exercising every muscle of the body in the briefest time."

In 1959 a proposal received favourable consideration by the Public Health Committee for the provision of a swimming pool. However, progress towards its materialisation has been slow and opinion on its value is evenly divided, the opposition being based on the cost and size of the scheme. This is not merely a question of revenue and expenditure, this part of the rural district is barren of any healthy outlet for youthful energy and school children have to travel far for swimming facilities.

PERSONS  
IN NEED OF  
CARE AND  
ATTENTION

The National Assistance Act, 1948, empowered local authorities to deal expeditiously with certain cases of persons in need of care and attention by applying to the Court of Summary Jurisdiction for a removal order.

Since the Act came into operation we have investigated the circumstances of 26 persons said to be in need of care and attention with a view to applying to the Court for a removal order where necessary. In 5 cases action to obtain such an order has been initiated but only in 1 case has an actual order of the Court been obtained and used for the purposes of removal to a hospital or other

suitable accommodation. In the remaining cases other circumstances have intervened before the case was heard in Court.

In 1959 we had 4 cases. Two cases on first investigation required no further action by us; a third case was a female aged 87 living in a state of squalor who, while an application for a removal order was pending, was found with a fractured neck of femur and was removed to hospital as a casualty; the fourth case was a female aged 90 who was confused in mind, but before the application to the Court for removal was heard she was admitted to hospital.

In 1960 an aged vagrant living under a tarpaulin in squalid conditions was the subject of an application to the Court for removal, but this became unnecessary owing to the timely action of the District Officer, who persuaded him to remain in hospital whilst there for other reasons.

#### HEALTH EDUCATION

By health education we mean something more positive than the day to day conversations of officers of health departments with members of the public. Health education includes organised publicity, organised informed discussions, films, posters and approaches to the schools and adult organisations.

The position regarding health education is a little perplexing. The Kent County Council as Local Health Authority are empowered to carry out this duty and, as I understand it, receive in their ministry grant provision for this work. District councils are also empowered to carry out the same duty but receive no ministry grant. From the financial angle, therefore, it seems logical that the health education in the district should be undertaken by the County Council.

However, we have no precise information on what the Local Health Authority are doing in this district. The Council have, therefore, in a small way embarked on a limited programme in this field, namely the distribution of "Better Health" and the erection of notice boards throughout the parishes for the display of double-crown posters.

We consider that emphasis should be placed upon the association of cancer of the lung and tobacco smoking, the means of preserving healthy teeth, the effects of alcohol, the protection available by vaccinations, the need for personal and food hygiene, and prevention of accidents in the home.

It should be remembered that where vested interests are concerned the Local Authority is in a unique position through its ability to be impartial.

VERMIN

The number of business premises treated by the Council's Rodent Operator for the destruction of rats in this district is not large and the reason for this is that such business premises are largely treated by private contractors. It was felt that the majority of such businesses would welcome a contract system worked by this Local Authority for rodent control and at the suggestion of the Council's Public Health Inspector a scheme was put before the Public Health Committee and received approval. However, before being put into effect it was agreed that a survey of the district should be undertaken, but this has not yet been done.

In the summer the destruction of wasps nests is an exacting task for the Council's Rodent Operator and it was suggested, therefore, that a charge should be made to the public but the Council decided to continue to give this service free.

HYGIENE  
IN  
LICENSED  
PREMISES

On the initiative of the Licensing Justices a meeting was held in 1960 to discuss the ways in which mutual co-operation could be effected between Public Health Officers and the Licensing Justices in the improvement of hygiene in licensed premises.

ADMINISTRATION

In 1957 we were able to persuade the Committee to transfer the duties of public cleansing to the Engineer and Surveyor, which relieved this small office of time consuming work. In 1958, in view of the impending retirement of the Council's Chief Public Health Inspector and increasing population, proposals were put forward for the future administrative pattern of this office. These suggested (a) the recognition of the fact that the district Public Health Inspectors to a substantial degree managed their respective areas and (b) the need for a Senior Public Health Inspector to concern himself with the problems of the district as a whole. These proposals, however, were not immediately acceptable to the Council and the retiring Chief Public Health Inspector was replaced by a district Public Health Inspector. However, the subject was resubmitted for consideration on further occasions and in 1960 a Senior Public Health Inspector was appointed, thus increasing the establishment by one. In that year also the district Public Health Inspectors were up-graded. Unfortunately, owing to ill health, we were not able to benefit from our increased establishment.

In 1959 the three elevenths available for County duties in the "mixed" appointment held by your Medical Officer of Health was transferred to the neighbouring authorities of Northfleet Urban District and Swanscombe Urban District so that with the existing

four elevenths available to Dartford Borough the appointment became a "combined" one serving four district councils.

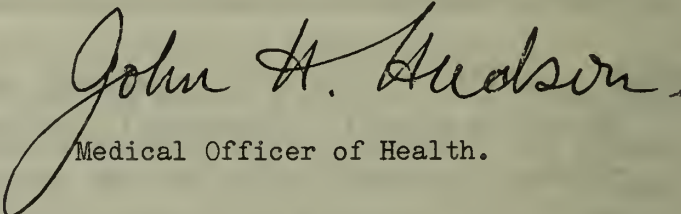
ACKNOWLEDGEMENTS

We have here a type of administration in which the skill and experience of the members of this small department are put to most effective use. The reliability with which this administrative pattern has worked is due to the conscientious way in which the staff have carried out their duties.

Apart from the information contributed by my colleagues in this department, material has been provided by officers of other departments and bodies concerned with public health. I should like to thank all those concerned in the preparation of this report.

We in this office appreciate the interest and support shown by the Chairman and Members of the Public Health Committee during the years under review.

I am, Mr. Chairman, Ladies and Gentlemen,  
Your obedient servant,

  
Medical Officer of Health.

JHH/AMTC

TABLE I - SOCIAL CONDITIONS

|                                                                                 |          |
|---------------------------------------------------------------------------------|----------|
| Area (acres) 1958                                                               | 34,026   |
| Population (Census 1931)                                                        | 31,253   |
| Population (Census 1951)                                                        | 37,905   |
| Mid-year home population 1959 (R.G.'s estimate)                                 | 50,090   |
| Mid-year home population 1960 (R.G.'s estimate)                                 | 52,380   |
| Number of domestic & agricultural dwelling houses<br>assessed to rates 31.3.59. | 13,991   |
| 31.3.60.                                                                        | 14,731   |
| 31.3.61.                                                                        | 15,223   |
| Rateable value 31.3.60.                                                         | £738,416 |
| Rateable value 31.3.61.                                                         | £754,116 |
| Sum represented by 1d. rate 31.3.60.                                            | £2,989   |
| Sum represented by 1d. rate 31.3.61.                                            | £3,079   |

In the last eight years the area comparability factors for births (governed by the proportion of women aged 18-44 years) and for deaths (governed by the proportion of all age groups) have been as follows:

| Year   | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|--------|------|------|------|------|------|------|------|------|
| Births | 1.00 | 1.00 | 1.00 | 0.96 | 1.02 | 0.98 | 0.98 | 0.96 |
| Deaths | 0.99 | 0.99 | 0.99 | 1.08 | 1.01 | 1.06 | 1.07 | 1.16 |

When local crude birth and death rates are multiplied by the appropriate area comparability factor they are comparable with the crude rate for England and Wales or with the corresponding adjusted rate for any other area.

POPULATION: Increases in the population are due to natural causes, i.e. excess of births over deaths, and immigration, both being related to new houses built.

|                               | 1953   | 1954   | 1955   | 1956   | 1957   | 1958   | 1959   | 1960   |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Est. mid-year home population | 38,610 | 39,110 | 41,290 | 43,940 | 45,330 | 47,660 | 50,090 | 52,380 |
| Increase on previous year     | 360    | 500    | 2,180  | 2,650  | 1,390  | 2,330  | 2,430  | 2,290  |
| Natural increase              | 187    | 170    | 222    | 323    | 362    | 448    | 496    | 613    |
| Immigration                   | 173    | 330    | 1,958  | 2,327  | 1,028  | 1,882  | 1,934  | 1,677  |
| Houses built                  | 439    | 573    | 847    | 1,018  | 380*   | 742    | 725    | 561    |

\*On 1.4.57. 486 houses went to the Borough with the change of boundary and in the table above these have been subtracted from the 866 houses built in the year 1957.

Social conditions for these two years may be illustrated by:

| Cases dealt with by the N.S.P.C.C. | 1959 | 1960 |
|------------------------------------|------|------|
| Neglect                            | 10   | 18   |
| Ill treatment                      | 3    | 8    |
| Moral danger                       | 2    | -    |
| Aid/advice sought                  | 5    | 6    |
| Children involved                  | 32   | 79   |
| Prosecutions                       | -    | -    |

Unemployed (Dartford Borough and Dartford Rural District)

|           |       |     |           |       |     |
|-----------|-------|-----|-----------|-------|-----|
| 31.12.59. | Men   | 194 | 31.12.60. | Men   | 117 |
|           | Women | 57  |           | Women | 35  |

Illegitimate birth rate per thousand live births:

| Dartford Rural District | Dartford Borough | England and Wales |
|-------------------------|------------------|-------------------|
| 1959                    | 1959             | 1959              |
| 30                      | 37               | 51                |
| 1960                    | 1960             | 1960              |
| 30                      | 35               | 54                |

TABLE II - BIRTHS &amp; DEATHS, 1959 &amp; 1960

|                                                 | 1959       |            |            | 1960       |            |              |
|-------------------------------------------------|------------|------------|------------|------------|------------|--------------|
|                                                 | M          | F          | Persons    | M          | F          | Persons      |
| Live Births:                                    |            |            |            |            |            |              |
| Legitimate                                      | 473        | 477        | 950        | 558        | 478        | 1,036        |
| Illegitimate                                    | <u>14</u>  | <u>15</u>  | <u>29</u>  | <u>17</u>  | <u>15</u>  | <u>32</u>    |
|                                                 | <u>487</u> | <u>492</u> | <u>979</u> | <u>575</u> | <u>493</u> | <u>1,068</u> |
| Deaths from all causes:                         | 246        | 237        | 483        | 231        | 224        | 455          |
| Deaths from pregnancy,<br>childbirth, abortion: |            | -          | -          | -          | -          | -            |
| Still Births:                                   |            |            |            |            |            |              |
| Legitimate                                      | 7          | 6          | 13         | 10         | 13         | 23           |
| Illegitimate                                    | <u>-</u>   | <u>-</u>   | <u>-</u>   | <u>2</u>   | <u>1</u>   | <u>3</u>     |
|                                                 | <u>7</u>   | <u>6</u>   | <u>13</u>  | <u>12</u>  | <u>14</u>  | <u>26</u>    |
| Deaths - 0 to 6 days:                           |            |            |            |            |            |              |
| Legitimate                                      | 2          | 4          | 6          | 5          | 9          | 14           |
| Illegitimate                                    | <u>-</u>   | <u>1*</u>  | <u>1</u>   | <u>-</u>   | <u>1</u>   | <u>1</u>     |
|                                                 | <u>2</u>   | <u>5</u>   | <u>7</u>   | <u>5</u>   | <u>10</u>  | <u>15</u>    |
| Deaths - 7 to 27 days:                          |            |            |            |            |            |              |
| Legitimate                                      | 2          | -          | 2          | 2          | 2          | 4            |
| Illegitimate                                    | <u>-</u>   | <u>-</u>   | <u>-</u>   | <u>-</u>   | <u>-</u>   | <u>-</u>     |
|                                                 | <u>2</u>   | <u>-</u>   | <u>2</u>   | <u>2</u>   | <u>2</u>   | <u>4</u>     |
| Deaths - 28 to 364 days:                        |            |            |            |            |            |              |
| Legitimate                                      | 2          | -          | 2          | 3          | -          | 3            |
| Illegitimate                                    | <u>-</u>   | <u>-</u>   | <u>-</u>   | <u>-</u>   | <u>1</u>   | <u>1</u>     |
|                                                 | <u>2</u>   | <u>-</u>   | <u>2</u>   | <u>3</u>   | <u>1</u>   | <u>4</u>     |
| Total under 1 year:                             | 6          | 5          | 11         | 10         | 13         | 23           |

## Rates per 1,000 Home Population

|                                                                | 1959 | 1960 |
|----------------------------------------------------------------|------|------|
| Crude live birth rate Dartford R.D.                            | 19.6 | 20.4 |
| Live birth rate Dartford R.D. adjusted by comparability factor | 19.2 | 19.6 |
| " " " England & Wales                                          | 16.5 | 17.2 |
| Crude death rate Dartford R.D.                                 | 9.7  | 8.7  |
| Death rate Dartford R.D. adjusted by comparability factor      | 10.3 | 10.1 |
| " " " England & Wales                                          | 11.6 | 11.5 |

## Rates per 1,000 Live and Still Births

|                             |                 |      |      |
|-----------------------------|-----------------|------|------|
| Maternal death rate:        | Dartford R.D.   | 0.   | 0.   |
|                             | England & Wales | 0.38 | 0.39 |
| Still birth rate:           | Dartford R.D.   | 13.1 | 23.9 |
|                             | England & Wales | 21.0 | 19.8 |
| Perinatal death rate:       | Dartford R.D.   | 20.2 | 37.7 |
| (s.b. & deaths 0-6 days)    | England & Wales | 34.1 | 32.8 |
| Rates per 1,000 Live Births |                 |      |      |
| Neonatal death rate:        | Dartford R.D.   | 9.2  | 17.8 |
| (deaths 0-27 days)          | England & Wales | 15.9 | 15.5 |
| Infant death rate:          | Dartford R.D.   | 11.3 | 21.6 |
| (deaths 0-364 days)         | England & Wales | 22.2 | 21.8 |

\*these figures exclude one female wrongly assigned to Dartford Borough who should have been assigned to Dartford Rural District.

TABLE III - CAUSES OF DEATH ACCORDING TO SEX

## Registrar General's Return

|                                          | 1959 |     |         | 1960 |     |         |
|------------------------------------------|------|-----|---------|------|-----|---------|
|                                          | M    | F   | Persons | M    | F   | Persons |
| All causes                               | 246  | 237 | 483     | 231  | 224 | 455     |
| Tuberculosis, respiratory                | 2    | -   | 2       | 1    | 2   | 3       |
| Tuberculosis, other                      | 1    | -   | 1       | -    | -   | -       |
| Syphilitic disease                       | 1    | -   | 1       | -    | -   | -       |
| Diphtheria                               | -    | -   | -       | -    | -   | -       |
| Whooping cough                           | -    | -   | -       | -    | -   | -       |
| Meningococcal infections                 | -    | -   | -       | -    | -   | -       |
| Acute poliomyelitis                      | -    | -   | -       | -    | -   | -       |
| Measles                                  | -    | -   | -       | -    | -   | -       |
| Other infective and parasitic diseases   | -    | -   | -       | 1    | -   | 1       |
| Malignant neoplasm, stomach              | 5    | 2   | 7)      | 7    | 4   | 11)     |
| Malignant neoplasm, lung, bronchus       | 21   | 5   | 26)     | 22   | 1   | 23)     |
| Malignant neoplasm, breast               | -    | 10  | 10)     | -    | 11  | 11)     |
| Malignant neoplasm, uterus               | -    | 5   | 5)      | -    | 1   | 1)      |
| Other malignant and lymphatic neoplasms  | 18   | 26  | 44)     | 26   | 24  | 50)     |
| Leukaemia, aleukaemia                    | 3    | 1   | 4)      | 1    | -   | 1)      |
|                                          |      |     | 96      |      |     | 97      |
| Diabetes                                 | 1    | 3   | 4       | -    | 2   | 2       |
| Vascular lesions of nervous system       | 27   | 25  | 52      | 19   | 38  | 57      |
| Coronary disease, angina                 | 39   | 27  | 66)     | 56   | 45  | 101)    |
| Hypertension with heart disease          | 3    | 3   | 6)      | 1    | 4   | 5)      |
| Other heart disease                      | 26   | 49  | 75)     | 14   | 27  | 41)     |
| Other circulatory disease                | 19   | 12  | 31)     | 7    | 13  | 20)     |
|                                          |      |     | 178     |      |     | 167     |
| Influenza                                | 1    | 1   | 2)      | -    | -   | -)      |
| Pneumonia                                | 17   | 13  | 30)     | 13   | 10  | 23)     |
| Bronchitis                               | 19   | 9   | 28)     | 17   | 9   | 26)     |
| Other diseases of the respiratory system | 4    | 4   | 8)      | 4    | -   | 4)      |
|                                          |      |     | 68      |      |     | 53      |
| Ulcer of stomach and duodenum            | 3    | 1   | 4       | 2    | -   | 2       |
| Gastritis, enteritis and diarrhoea       | -    | 2   | 2       | 2    | 1   | 3       |
| Nephritis and nephrosis                  | -    | 4   | 4       | 3    | -   | 3       |
| Hyperplasia of prostate                  | 1    | -   | 1       | 2    | -   | 2       |
| Pregnancy, childbirth, abortion          | -    | -   | -       | -    | -   | -       |
| Congenital malformations                 | 4    | 2   | 6       | 1    | 6   | 7       |
| Other defined and ill-defined diseases   | 14   | 24  | 38      | 18   | 24  | 42      |
| Motor vehicle accidents                  | 11   | 4   | 15      | 8    | -   | 8       |
| All other accidents                      | 5    | 4   | 9       | 5    | 2   | 7       |
| Suicide                                  | 1    | 1   | 2       | 1    | -   | 1       |
| Homicide and operations of war           | -    | -   | -       | -    | -   | -       |

TABLE IVa - CAUSES OF DEATH ACCORDING TO AGE, 1959

Compiled locally.

|                                          | All ages | Under 4 weeks | 4 wks - 1 yr | 1 - 2 | 2 - 5 | 5 - 15 | 15 - 25 | 25 - 35 | 35 - 45 | 45 - 55 | 55 - 65 | 65 - 75 | 75+ |
|------------------------------------------|----------|---------------|--------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|-----|
| All causes                               | 483      | 10            | 2            | 1     | 1     | 3      | 3       | 9       | 21      | 33      | 78      | 112     | 210 |
| Tuberculosis, respiratory                | 2        | -             | -            | -     | -     | -      | -       | 1       | -       | -       | -       | 1       | -   |
| Tuberculosis, other                      | 1        | -             | -            | -     | -     | -      | -       | -       | -       | -       | 1       | -       | -   |
| Syphilitic disease                       | 1        | -             | -            | -     | -     | -      | -       | -       | 1       | -       | -       | -       | -   |
| Diphtheria                               | -        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | -       | -   |
| Whooping cough                           | -        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | -       | -   |
| Meningococcal infections                 | -        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | -       | -   |
| Acute poliomyelitis                      | -        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | -       | -   |
| Measles                                  | -        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | -       | -   |
| Other infective and parasitic diseases   | -        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | -       | -   |
| Malignant neoplasm, stomach              | 7        | -             | -            | -     | -     | -      | -       | -       | -       | 1       | 2       | 2       | 2   |
| Malignant neoplasm, lung, bronchus       | 25       | -             | -            | -     | -     | -      | -       | -       | 3       | 3       | 5       | 13      | 1   |
| Malignant neoplasm, breast               | 10       | -             | -            | -     | -     | -      | -       | -       | 1       | 2       | 3       | 2       | 2   |
| Malignant neoplasm, uterus               | 5        | -             | -            | -     | -     | -      | -       | -       | 1       | 1       | 3       | -       | -   |
| Other malignant and lymphatic neoplasms  | 42       | -             | -            | -     | -     | -      | 1       | 2       | 3       | 5       | 5       | 9       | 17  |
| Leukaemia, aleukaemia                    | 4        | -             | -            | -     | -     | -      | -       | -       | -       | -       | 1       | 2       | 1   |
| Diabetes                                 | 4        | -             | -            | -     | -     | -      | -       | -       | -       | -       | 3       | 1       | -   |
| Vascular lesions of nervous system       | 51       | -             | -            | -     | -     | -      | 2       | -       | -       | 2       | 5       | 13      | 29  |
| Coronary disease, angina                 | 66       | -             | -            | -     | -     | -      | -       | -       | 1       | 3       | 12      | 19      | 31  |
| Hypertension with heart disease          | 3        | -             | -            | -     | -     | -      | -       | -       | 1       | 1       | 1       | -       | -   |
| Other heart disease                      | 79       | -             | -            | -     | -     | -      | -       | -       | -       | 2       | 14      | 13      | 50  |
| Other circulatory disease                | 31       | -             | -            | -     | -     | -      | -       | -       | 1       | -       | 3       | 10      | 17  |
| Influenza                                | 1        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | 1       | -   |
| Pneumonia                                | 29       | -             | -            | -     | -     | 2      | -       | -       | 1       | 3       | 1       | 4       | 18  |
| Bronchitis                               | 33       | -             | -            | -     | -     | -      | -       | -       | -       | 3       | 4       | 9       | 17  |
| Other diseases of the respiratory system | 5        | -             | -            | -     | -     | -      | -       | -       | 1       | -       | 2       | 1       | 1   |
| Ulcer of stomach & duodenum              | 3        | -             | -            | -     | -     | -      | -       | -       | -       | -       | 1       | -       | 2   |
| Gastritis, enteritis & diarrhoea         | 2        | -             | -            | -     | 1     | -      | -       | -       | -       | -       | -       | -       | 1   |
| Nephritis & nephrosis                    | 4        | -             | -            | -     | -     | -      | -       | 2       | -       | 1       | -       | 1       | -   |
| Hyperplasia of prostate                  | 1        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | -       | 1   |
| Pregnancy, childbirth, abortion          | -        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | -       | -   |
| Congenital malformations                 | 7        | 3             | 2            | -     | -     | -      | -       | 1       | -       | 1       | -       | -       | -   |
| Other defined and ill-defined diseases   | 40       | 6             | -            | 1     | -     | -      | -       | -       | 1       | 1       | 6       | 8       | 17  |
| Motor vehicle accidents                  | 15       | -             | -            | -     | -     | -      | -       | 2       | 3       | 4       | 3       | 2       | 1   |
| All other accidents                      | 10       | 1             | -            | -     | -     | 1      | -       | 1       | 3       | -       | 1       | 1       | 2   |
| Suicide                                  | 2        | -             | -            | -     | -     | -      | -       | -       | -       | -       | 2       | -       | -   |
| Homicide & operations of war             | -        | -             | -            | -     | -     | -      | -       | -       | -       | -       | -       | -       | -   |

TABLE IVb - CAUSES OF DEATH ACCORDING TO AGE, 1960

Compiled locally.

|                                          | All ages<br>456 | Under 4 weeks<br>20 | 4 wks - 1 yr<br>3 | 1 - 2<br>1 | 2 - 5<br>1 | 5 - 15<br>9 | 15 - 25<br>4 | 25 - 35<br>6 | 35 - 45<br>5 | 45 - 55<br>30 | 55 - 65<br>78 | 65 - 75<br>111 | 75+<br>189 |
|------------------------------------------|-----------------|---------------------|-------------------|------------|------------|-------------|--------------|--------------|--------------|---------------|---------------|----------------|------------|
| All causes                               |                 |                     |                   |            |            |             |              |              |              |               |               |                |            |
| Tuberculosis, respiratory                | 3               | -                   | -                 | -          | -          | -           | -            | -            | 1            | 1             | -             | 1              | -          |
| Tuberculosis, other                      | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Syphilitic disease                       | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Diphtheria                               | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Whooping cough                           | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Meningococcal infections                 | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Acute poliomyelitis                      | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Measles                                  | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Other infective and parasitic diseases   | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Malignant neoplasm, stomach              | 11              | -                   | -                 | -          | -          | -           | -            | 1            | 1            | 2             | 4             | -              | 3          |
| Malignant neoplasm, lung, bronchus       | 23              | -                   | -                 | -          | -          | -           | -            | -            | -            | 4             | 10            | 6              | 3          |
| Malignant neoplasm, breast               | 11              | -                   | -                 | -          | -          | -           | -            | -            | -            | 4             | 5             | -              | 2          |
| Malignant neoplasm, uterus               | 8               | -                   | -                 | -          | -          | -           | -            | -            | -            | 1             | 3             | 2              | 2          |
| Other malignant and lymphatic neoplasms  | 41              | -                   | -                 | -          | -          | 2           | -            | -            | 2            | 2             | 10            | 9              | 16         |
| Leukaemia, aleukaemia                    | 1               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | 1          |
| Diabetes                                 | 1               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | 1          |
| Vascular lesions of nervous system       | 56              | -                   | -                 | -          | -          | -           | -            | -            | -            | 1             | 3             | 15             | 37         |
| Coronary disease, angina                 | 100             | -                   | -                 | -          | -          | -           | -            | 1            | -            | 7             | 22            | 39             | 31         |
| Hypertension with heart disease          | 2               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | 1              | 1          |
| Other heart disease                      | 42              | -                   | -                 | -          | -          | -           | -            | 1            | -            | 1             | 2             | 6              | 32         |
| Other circulatory disease                | 21              | -                   | -                 | -          | -          | -           | -            | -            | -            | 3             | 3             | 4              | 11         |
| Influenza                                | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Pneumonia                                | 25              | -                   | -                 | -          | -          | 1           | -            | -            | -            | 1             | 1             | 8              | 14         |
| Bronchitis                               | 22              | -                   | -                 | -          | -          | 1           | -            | -            | -            | -             | 4             | 7              | 10         |
| Other diseases of the respiratory system | 5               | -                   | -                 | -          | -          | 1           | -            | -            | -            | -             | 2             | -              | 2          |
| Ulcer of stomach & duodenum              | 2               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | 2          |
| Gastritis, enteritis & diarrhoea         | 4               | -                   | 1                 | -          | -          | 1           | -            | -            | -            | 1             | -             | -              | 1          |
| Nephritis & nephrosis                    | 1               | -                   | -                 | -          | -          | -           | -            | -            | 1            | -             | -             | -              | -          |
| Hyperplasia of prostate                  | 2               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | 2          |
| Pregnancy, childbirth, abortion          | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |
| Congenital malformations                 | 7               | 6                   | -                 | -          | -          | 1           | -            | -            | -            | -             | -             | -              | -          |
| Other defined and ill-defined diseases   | 52              | 14                  | 1                 | -          | -          | 2           | -            | 1            | -            | 2             | 6             | 10             | 16         |
| Motor vehicle accidents                  | 8               | -                   | -                 | -          | -          | -           | 3            | 2            | -            | -             | 1             | 2              | -          |
| All other accidents                      | 7               | -                   | 1                 | 1          | -          | 1           | -            | -            | -            | -             | 1             | 1              | 2          |
| Suicide                                  | 1               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | 1             | -              | -          |
| Homicide & operations of war             | -               | -                   | -                 | -          | -          | -           | -            | -            | -            | -             | -             | -              | -          |

TABLE Va - CAUSES OF DEATH, 1959

Ages 75 and over

|                                         | Total males<br>& females | MALE  |       |       |       |       |       | FEMALE |       |       |       |       |       |
|-----------------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
|                                         |                          | Total | 75-79 | 80-84 | 85-89 | 90-94 | 95-99 | Total  | 75-79 | 80-84 | 85-89 | 90-94 | 95-99 |
| All causes                              | 210                      | 91    | 46    | 22    | 12    | 11    | -     | 119    | 30    | 42    | 25    | 17    | 5     |
| Tuberculosis, respiratory               | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Tuberculosis, other                     | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Syphilitic disease                      | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Diphtheria                              | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Whooping cough                          | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Meningococcal infections                | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Acute poliomyelitis                     | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Measles                                 | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Other infective and parasitic diseases  | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Malignant neoplasm, stomach             | 2                        | -     | -     | -     | -     | -     | -     | 2      | 2     | -     | -     | -     | -     |
| Malignant neoplasm, lung, bronchus      | 1                        | 1     | -     | 1     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Malignant neoplasm, breast              | 2                        | -     | -     | -     | -     | -     | -     | 2      | -     | -     | 2     | -     | -     |
| Malignant neoplasm, uterus              | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Other malignant and lymphatic neoplasms | 17                       | 7     | 3     | 2     | 2     | -     | -     | 10     | 4     | 5     | -     | 1     | -     |
| Leukaemia, aleukaemia                   | 1                        | 1     | 1     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Diabetes                                | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Vascular lesions of nervous system      | 29                       | 12    | 6     | 3     | 2     | 1     | -     | 17     | 6     | 7     | 2     | 1     | 1     |
| Coronary disease, angina                | 31                       | 15    | 7     | 3     | 3     | 2     | -     | 16     | 8     | 4     | 3     | 1     | -     |
| Hypertension with heart disease         | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Other heart disease                     | 50                       | 15    | 8     | 4     | 2     | 1     | -     | 35     | 4     | 12    | 10    | 8     | 1     |
| Other circulatory disease               | 17                       | 11    | 8     | 1     | -     | 2     | -     | 6      | 2     | 3     | 1     | -     | -     |
| Influenza                               | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Pneumonia                               | 18                       | 10    | 2     | 5     | 1     | 2     | -     | 8      | 2     | 2     | 2     | 2     | -     |
| Bronchitis                              | 17                       | 9     | 6     | -     | 1     | 2     | -     | 8      | 1     | 4     | 2     | -     | 1     |
| Other diseases of respiratory system    | 1                        | -     | -     | -     | -     | -     | -     | 1      | -     | -     | -     | 1     | -     |
| Ulcer of stomach & duodenum             | 2                        | 1     | 1     | -     | -     | -     | -     | 1      | -     | 1     | -     | -     | -     |
| Gastritis, enteritis & diarrhoea        | 1                        | -     | -     | -     | -     | -     | -     | 1      | -     | -     | 1     | -     | -     |
| Nephritis and nephrosis                 | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Hyperplasia of prostate                 | 1                        | 1     | -     | -     | 1     | -     | -     | -      | -     | -     | -     | -     | -     |
| Congenital malformations                | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Other defined and ill-defined diseases  | 17                       | 6     | 2     | 3     | -     | 1     | -     | 11     | 1     | 3     | 2     | 3     | 2     |
| Motor vehicle accidents                 | 1                        | 1     | 1     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| All other accidents                     | 2                        | 1     | 1     | -     | -     | -     | -     | 1      | -     | 1     | -     | -     | -     |
| Suicide                                 | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Homicide and operations of war          | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |

TABLE Vb - CAUSES OF DEATH, 1960

Ages 75 and over

|                                         | Total males<br>& females | MALE  |       |       |       |       |       | FEMALE |       |       |       |       |       |      |
|-----------------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|------|
|                                         |                          | Total | 75-79 | 80-84 | 85-89 | 90-94 | 95-99 | Total  | 75-79 | 80-84 | 85-89 | 90-94 | 95-99 | 100+ |
| All causes                              | 189                      | 75    | 31    | 19    | 15    | 9     | 1     | 114    | 41    | 30    | 30    | 10    | 2     | 1    |
| Tuberculosis, respiratory               | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Tuberculosis, other                     | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Syphilitic disease                      | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Diphtheria                              | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Whooping cough                          | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Meningococcal infections                | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Acute poliomyelitis                     | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Measles                                 | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Other infective and parasitic diseases  | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Malignant neoplasm, stomach             | 3                        | 2     | -     | 2     | -     | -     | -     | 1      | -     | 1     | -     | -     | -     | -    |
| Malignant neoplasm, lung, bronchus      | 3                        | 3     | 3     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Malignant neoplasm, breast              | 2                        | -     | -     | -     | -     | -     | -     | 2      | 1     | 1     | -     | -     | -     | -    |
| Malignant neoplasm, uterus              | 1                        | -     | -     | -     | -     | -     | -     | 1      | -     | -     | 1     | -     | -     | -    |
| Other malignant and lymphatic neoplasms | 17                       | 9     | 5     | 1     | 1     | 2     | -     | 8      | 6     | 2     | -     | -     | -     | -    |
| Leukaemia, aleukaemia                   | 1                        | 1     | -     | -     | -     | 1     | -     | -      | -     | -     | -     | -     | -     | -    |
| Diabetes                                | 1                        | -     | -     | -     | -     | -     | -     | 1      | -     | -     | 1     | -     | -     | -    |
| Vascular lesions of nervous system      | 37                       | 8     | 2     | 2     | 3     | -     | 1     | 29     | 12    | 10    | 5     | 1     | 1     | -    |
| Coronary disease, angina                | 31                       | 12    | 5     | 4     | 1     | 2     | -     | 19     | 5     | 2     | 8     | 3     | 1     | -    |
| Hypertension with heart disease         | 1                        | 1     | -     | 1     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Other heart disease                     | 32                       | 9     | 3     | 2     | 3     | 1     | -     | 23     | 10    | 5     | 7     | -     | -     | 1    |
| Other circulatory disease               | 11                       | 4     | 1     | 2     | -     | 1     | -     | 7      | 2     | 3     | 1     | 1     | -     | -    |
| Influenza                               | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Pneumonia                               | 14                       | 7     | 2     | 2     | 2     | 1     | -     | 7      | 2     | 1     | 3     | 1     | -     | -    |
| Bronchitis                              | 10                       | 8     | 5     | 2     | 1     | -     | -     | 2      | -     | 1     | 1     | -     | -     | -    |
| Other diseases of respiratory system    | 2                        | 1     | -     | -     | -     | 1     | -     | 1      | -     | -     | -     | 1     | -     | -    |
| Ulcer of stomach & duodenum             | 2                        | 2     | 1     | -     | 1     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Gastritis, enteritis & diarrhoea        | 1                        | -     | -     | -     | -     | -     | -     | 1      | 1     | -     | -     | -     | -     | -    |
| Nephritis and nephrosis                 | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Hyperplasia of prostate                 | 2                        | 2     | 1     | -     | 1     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Congenital malformations                | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Other defined and ill-defined diseases  | 16                       | 4     | 2     | 1     | 1     | -     | -     | 12     | 2     | 4     | 3     | 3     | -     | -    |
| Motor vehicle accidents                 | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| All other accidents                     | 2                        | 2     | 1     | -     | 1     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Suicide                                 | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |
| Homicide and operations of war          | -                        | -     | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     | -    |

TABLE VIa

## DEATHS BY OCCUPATION FOR THE YEARS 1951-59

## MALES

|                                            | ALL  | I  | II  | III |    |    | IV |     |     | V   |    | X & |     |
|--------------------------------------------|------|----|-----|-----|----|----|----|-----|-----|-----|----|-----|-----|
|                                            |      |    |     | a   | b  | c  | d  | e   | a   | b   | a  | b   | 981 |
| All Causes                                 | 2100 | 78 | 329 | 2   | 66 | 54 | 9  | 643 | 255 | 175 | 83 | 286 | 120 |
|                                            |      |    |     |     |    |    |    |     |     |     |    |     |     |
| Tuberculosis, respiratory                  | 36   | 2  | 4   | -   | 1  | -  | 2  | 7   | 1   | 4   | 3  | 6   | 6   |
| Tuberculosis, other                        | 5    | 1  | -   | -   | 1  | -  | -  | 1   | -   | -   | -  | 1   | 1   |
| Syphilitic disease                         | 7    | -  | 2   | -   | -  | -  | -  | 2   | 1   | 2   | -  | -   | -   |
| Diphtheria                                 | -    | -  | -   | -   | -  | -  | -  | -   | -   | -   | -  | -   | -   |
| Whooping cough                             | 1    | -  | -   | -   | -  | -  | -  | -   | -   | 1   | -  | -   | -   |
| Meningococcal infection                    | -    | -  | -   | -   | -  | -  | -  | -   | -   | -   | -  | -   | -   |
| Acute poliomyelitis                        | -    | -  | -   | -   | -  | -  | -  | -   | -   | -   | -  | -   | -   |
| Measles                                    | -    | -  | -   | -   | -  | -  | -  | -   | -   | -   | -  | -   | -   |
| Other infective and<br>parasitic diseases  | 2    | -  | -   | -   | -  | -  | -  | -   | -   | -   | -  | 1   | 1   |
| Malignant neoplasm,<br>stomach             | 63   | 1  | 12  | -   | 3  | 2  | -  | 15  | 4   | 9   | 4  | 8   | 5   |
| Malignant neoplasm,<br>lung, bronchus      | 112  | 3  | 10  | 1   | 4  | 3  | -  | 43  | 9   | 12  | 8  | 18  | 1   |
| Malignant neoplasm,<br>breast              | 1    | -  | -   | -   | -  | -  | -  | 1   | -   | -   | -  | -   | -   |
| Other malignant and<br>lymphatic neoplasms | 206  | 9  | 29  | -   | 5  | 6  | 1  | 64  | 22  | 17  | 10 | 27  | 16  |
| Leukaemia & aleukaemia                     | 16   | -  | 2   | -   | -  | 1  | -  | 9   | 2   | 2   | 2  | -   | -   |
| Diabetes                                   | 4    | 1  | 1   | -   | -  | -  | -  | 1   | -   | -   | -  | 1   | -   |
| Vascular lesions nervous<br>system         | 228  | 8  | 48  | -   | 2  | 4  | 2  | 71  | 33  | 15  | 7  | 34  | 4   |
| Coronary disease, angina                   | 323  | 14 | 58  | -   | 11 | 13 | 1  | 98  | 35  | 27  | 7  | 45  | 14  |
| Hypertension with heart<br>disease         | 21   | 2  | 2   | -   | 2  | 1  | -  | 4   | 3   | -   | 3  | 4   | -   |
| Other heart disease                        | 271  | 12 | 42  | 1   | 5  | 7  | 1  | 75  | 45  | 19  | 10 | 33  | 21  |
| Other circulatory disease                  | 112  | 8  | 9   | -   | 1  | 1  | -  | 40  | 14  | 14  | 3  | 17  | 5   |
| Influenza                                  | 8    | -  | 2   | -   | -  | -  | -  | 3   | -   | 1   | -  | 1   | 1   |
| Pneumonia                                  | 116  | 1  | 16  | -   | 9  | -  | -  | 39  | 14  | 7   | 6  | 10  | 14  |
| Bronchitis                                 | 161  | 2  | 20  | -   | 6  | 3  | -  | 50  | 30  | 11  | 9  | 25  | 5   |
| Other diseases of<br>respiratory system    | 21   | -  | 4   | -   | -  | 1  | -  | 4   | 4   | 2   | -  | 6   | -   |
| Ulcer of stomach and<br>duodenum           | 23   | -  | 6   | -   | 1  | 1  | -  | 7   | 2   | 2   | -  | 2   | 2   |
| Gastritis, enteritis &<br>diarrhoea        | 9    | 1  | 2   | -   | -  | -  | -  | 1   | -   | 1   | 2  | 2   | -   |
| Nephritis and nephrosis                    | 10   | 1  | 1   | -   | 1  | -  | -  | 3   | 1   | 2   | -  | 1   | -   |
| Hyperplasia of prostate                    | 21   | -  | 5   | -   | -  | -  | -  | 7   | 2   | 1   | 1  | 4   | 1   |
| Congenital malformations                   | 26   | -  | 5   | -   | 1  | -  | -  | 8   | 2   | 3   | 3  | 1   | 3   |
| Other defined and ill-<br>defined diseases | 187  | 8  | 41  | -   | 7  | 7  | 1  | 57  | 18  | 14  | 5  | 20  | 9   |
| Motor vehicle accidents                    | 47   | 1  | 1   | -   | 1  | 4  | -  | 14  | 6   | 6   | 1  | 9   | 4   |
| All other accidents                        | 41   | 2  | 3   | -   | 3  | -  | -  | 12  | 4   | 2   | -  | 9   | 6   |
| Suicide                                    | 21   | 1  | 4   | -   | 2  | -  | 1  | 7   | 3   | 1   | -  | 1   | 1   |
| Homicide and operations<br>of war          | 1    | -  | -   | -   | -  | -  | -  | -   | -   | -   | 1  | -   | -   |

TABLE VIb

## DEATHS BY OCCUPATION FOR THE YEARS 1951-59

## DEATH RATE PER 1,000 ALL CAUSES

## MALES

|                                                      | ALL   | I & II | III   | IV    | V     | X & 981 |
|------------------------------------------------------|-------|--------|-------|-------|-------|---------|
| All Causes                                           | 1,000 | 1,000  | 1,000 | 1,000 | 1,000 | 1,000   |
| Tuberculosis, respiratory                            | 17    | 15     | 13    | 12    | 24    | 50      |
| Malignant neoplasm, stomach                          | 30    | 32     | 26    | 30    | 33    | 42      |
| Malignant neoplasm, lung,<br>bronchus                | 53    | 32     | 66    | 49    | 71    | 8       |
| Other malignant and<br>lymphatic neoplasms           | 98    | 93     | 98    | 91    | 101   | 133     |
| Vascular lesions nervous<br>system                   | 109   | 137    | 102   | 112   | 111   | 33      |
| Coronary disease, angina                             | 154   | 177    | 159   | 145   | 141   | 117     |
| Hypertension with heart<br>disease                   | 10    | 10     | 9     | 7     | 19    | -       |
| Other heart disease                                  | 129   | 133    | 115   | 149   | 117   | 175     |
| Other circulatory disease                            | 53    | 42     | 54    | 65    | 54    | 42      |
| Pneumonia                                            | 55    | 42     | 62    | 49    | 43    | 117     |
| Bronchitis                                           | 77    | 54     | 76    | 96    | 93    | 42      |
| Other diseases of<br>respiratory system              | 10    | 10     | 6     | 14    | 16    | -       |
| Ulcer of stomach and<br>duodenum                     | 11    | 15     | 12    | 9     | 5     | 17      |
| Hyperplasia of prostate                              | 10    | 12     | 9     | 7     | 14    | 8       |
| Congenital malformations                             | 12    | 12     | 12    | 12    | 11    | 25      |
| Other defined and ill-<br>defined diseases           | 89    | 120    | 93    | 75    | 68    | 75      |
| Motor vehicle accidents                              | 22    | 5      | 25    | 28    | 27    | 33      |
| All other accidents                                  | 20    | 12     | 19    | 14    | 24    | 50      |
| Suicide                                              | 10    | 12     | 13    | 9     | 3     | 8       |
| Other causes (where less<br>than 20 deaths occurred) | 31    | 35     | 31    | 27    | 25    | 25      |

TABLE VIc

## DEATHS BY OCCUPATION FOR THE YEARS 1951-59

## FEMALES

|                                            | ALL  | I  | II  |   |    | III |    |     |     | IV  |    |     | V   | X & |
|--------------------------------------------|------|----|-----|---|----|-----|----|-----|-----|-----|----|-----|-----|-----|
|                                            | 1834 | 69 | 322 | a | b  | c   | d  | e   | a   | b   | a  | b   | 981 |     |
| All Causes                                 | 1834 | 69 | 322 | 4 | 63 | 37  | 14 | 523 | 207 | 193 | 42 | 187 | 173 |     |
|                                            |      |    |     |   |    |     |    |     |     |     |    |     |     |     |
| Tuberculosis, respiratory                  | 18   | 1  | 3   | - | -  | -   | -  | 2   | 4   | 2   | 1  | 4   | 1   |     |
| Tuberculosis, other                        | 1    | -  | -   | - | -  | -   | -  | -   | -   | -   | -  | -   | 1   |     |
| Syphilitic disease                         | 3    | -  | -   | - | -  | -   | -  | 2   | -   | 1   | -  | -   | -   |     |
| Diphtheria                                 | -    | -  | -   | - | -  | -   | -  | -   | -   | -   | -  | -   | -   |     |
| Whooping cough                             | -    | -  | -   | - | -  | -   | -  | -   | -   | -   | -  | -   | -   |     |
| Meningococcal infection                    | 1    | -  | -   | - | -  | -   | -  | -   | -   | 1   | -  | -   | -   |     |
| Acute poliomyelitis                        | 2    | -  | -   | - | -  | -   | -  | 1   | -   | -   | -  | -   | 1   |     |
| Measles                                    | -    | -  | -   | - | -  | -   | -  | -   | -   | -   | -  | -   | -   |     |
| Other infective and<br>parasitic diseases  | 4    | -  | -   | - | 1  | -   | -  | -   | -   | 2   | -  | -   | 1   |     |
| Malignant neoplasm,<br>stomach             | 34   | 1  | 6   | - | -  | -   | -  | 13  | 4   | 6   | 2  | 2   | -   |     |
| Malignant neoplasm,<br>lung, bronchus      | 26   | 1  | 4   | - | 1  | 1   | -  | 7   | 3   | 3   | 2  | 3   | 1   |     |
| Malignant neoplasm,<br>breast              | 67   | 5  | 9   | - | 4  | 1   | -  | 25  | 6   | 8   | -  | 4   | 5   |     |
| Malignant neoplasm,<br>uterus              | 41   | 1  | 7   | - | 2  | -   | -  | 14  | 5   | 2   | 1  | 5   | 4   |     |
| Other malignant and<br>lymphatic neoplasms | 148  | 7  | 28  | - | 8  | 3   | -  | 36  | 17  | 20  | 4  | 12  | 13  |     |
| Leukaemia, aleukaemia                      | 5    | -  | -   | - | -  | -   | -  | 3   | 1   | -   | 1  | -   | -   |     |
| Diabetes                                   | 13   | -  | 2   | - | 1  | 1   | -  | 4   | -   | 1   | 1  | 1   | 2   |     |
| Vascular lesions nervous<br>system         | 259  | 10 | 45  | - | 9  | 3   | 1  | 71  | 42  | 24  | 4  | 33  | 17  |     |
| Coronary disease, angina                   | 214  | 3  | 47  | - | 10 | 4   | 3  | 72  | 22  | 15  | 6  | 24  | 8   |     |
| Hypertension with heart<br>disease         | 29   | 1  | 4   | - | -  | 1   | -  | 6   | 4   | 7   | 1  | 4   | 1   |     |
| Other heart disease                        | 392  | 15 | 72  | 2 | 8  | 12  | 3  | 105 | 44  | 38  | 9  | 34  | 50  |     |
| Other circulatory disease                  | 108  | 4  | 19  | - | 2  | 3   | 3  | 33  | 11  | 9   | 2  | 12  | 10  |     |
| Influenza                                  | 18   | 3  | 2   | - | -  | 1   | -  | 5   | 1   | 2   | -  | 1   | 3   |     |
| Pneumonia                                  | 87   | 3  | 16  | - | 1  | 1   | 1  | 21  | 12  | 7   | 1  | 12  | 12  |     |
| Bronchitis                                 | 80   | 2  | 11  | - | 4  | -   | 1  | 21  | 6   | 9   | 2  | 8   | 16  |     |
| Other diseases of<br>respiratory system    | 12   | -  | -   | - | 1  | -   | -  | 3   | 1   | 4   | 1  | 1   | 1   |     |
| Ulcer of stomach and<br>duodenum           | 11   | -  | 2   | - | 1  | -   | -  | 5   | 2   | -   | -  | 1   | -   |     |
| Gastritis, enteritis &<br>diarrhoea        | 12   | -  | 5   | - | -  | 1   | -  | 2   | 1   | 1   | -  | -   | 2   |     |
| Nephritis and nephrosis                    | 15   | -  | 3   | - | 1  | -   | -  | 4   | 1   | 3   | 1  | 2   | -   |     |
| Pregnancy, childbirth and<br>abortion      | 3    | 2  | 1   | - | -  | -   | -  | -   | -   | -   | -  | -   | -   |     |
| Congenital malformations                   | 15   | -  | 3   | - | -  | 1   | -  | 9   | -   | -   | 1  | -   | 1   |     |
| Other defined and ill-<br>defined diseases | 173  | 8  | 28  | 1 | 7  | 2   | 1  | 45  | 15  | 27  | 2  | 20  | 17  |     |
| Motor vehicle accidents                    | 14   | 1  | 1   | - | -  | 2   | -  | 6   | 1   | -   | -  | 2   | 1   |     |
| All other accidents                        | 20   | -  | 3   | 1 | -  | -   | 1  | 3   | 4   | 1   | -  | 2   | 5   |     |
| Suicide                                    | 9    | 1  | 1   | - | 2  | -   | -  | 5   | -   | -   | -  | -   | -   |     |

TABLE VIa

## DEATHS BY OCCUPATION FOR THE YEARS 1951-59

## DEATH RATE PER 1,000 ALL CAUSES

## FEMALES

|                                                      | ALL   | I & II | III   | IV    | V     | X & 981 |
|------------------------------------------------------|-------|--------|-------|-------|-------|---------|
| All Causes                                           | 1,000 | 1,000  | 1,000 | 1,000 | 1,000 | 1,000   |
| Malignant neoplasm, stomach                          | 19    | 18     | 20    | 25    | 17    | -       |
| Malignant neoplasm, lung<br>bronchus                 | 14    | 13     | 14    | 15    | 22    | 6       |
| Malignant neoplasm, breast                           | 37    | 36     | 47    | 35    | 17    | 29      |
| Malignant neoplasm, uterus                           | 22    | 20     | 25    | 18    | 26    | 23      |
| Other malignant and<br>lymphatic neoplasms           | 81    | 89     | 73    | 93    | 70    | 75      |
| Vascular lesions nervous<br>system                   | 141   | 141    | 131   | 165   | 162   | 98      |
| Coronary disease, angina                             | 117   | 128    | 138   | 93    | 131   | 46      |
| Hypertension with heart<br>disease                   | 16    | 13     | 11    | 28    | 22    | 6       |
| Other heart disease                                  | 214   | 222    | 202   | 205   | 187   | 289     |
| Other circulatory disease                            | 59    | 59     | 64    | 50    | 61    | 58      |
| Pneumonia                                            | 48    | 49     | 37    | 48    | 57    | 69      |
| Bronchitis                                           | 44    | 33     | 41    | 38    | 44    | 92      |
| Other defined and ill-<br>defined diseases           | 94    | 92     | 87    | 105   | 96    | 98      |
| All other accidents                                  | 11    | 8      | 8     | 13    | 9     | 29      |
| Other causes (where less<br>than 20 deaths occurred) | 83    | 79     | 102   | 69    | 79    | 82      |

TABLE VIIa - DEATHS

## DEATHS BY QUARTERS (compiled locally)

|                                                    | 1st Qr. |      | 2nd Qr. |      | 3rd Qr. |      | 4th Qr. |      | Total |      |
|----------------------------------------------------|---------|------|---------|------|---------|------|---------|------|-------|------|
|                                                    | 1959    | 1960 | 1959    | 1960 | 1959    | 1960 | 1959    | 1960 | 1959  | 1960 |
| Total deaths assigned to R.D. by Registrar General | 157     | 127  | 111     | 124  | 106     | 89   | 109     | 116  | 483   | 456  |
| Less deaths in mental hospitals                    | 18      | 9    | 14      | 11   | 13      | 9    | 9       | 12   | 54    | 41   |
| Deaths excluding mental hospitals                  | 139     | 118  | 97      | 113  | 93      | 80   | 100     | 104  | 429   | 415  |

## Quarterly number of deaths

| Year | 1st Qr. | 2nd Qr. | 3rd Qr. | 4th Qr. | Total |
|------|---------|---------|---------|---------|-------|
| 1959 | 157     | 111     | 106     | 109     | 483   |
| 1960 | 127     | 124     | 89      | 116     | 456   |

## Quarterly death rates per 1,000 (adjusted by comparability factor)

| Year                     | 1st Qr. | 2nd Qr. | 3rd Qr. | 4th Qr. | Year |
|--------------------------|---------|---------|---------|---------|------|
| Dartford Rural District: |         |         |         |         |      |
| 1959                     | 13.4    | 9.4     | 9.0     | 9.3     | 10.3 |
| 1960                     | 11.3    | 11.0    | 7.9     | 10.3    | 10.1 |
| England and Wales:       |         |         |         |         |      |
| 1959                     | 15.8    | 10.6    | 9.0     | 11.1    | 11.6 |
| 1960                     | 13.1    | 10.9    | 9.8     | 12.2    | 11.5 |

## DEATHS IN HOSPITAL (including Stone House &amp; Darenth Park) AND AT HOME

| All Ages<br>Where died - | 1959 |    | 1st Qr. |    | 2nd Qr. |    | 3rd Qr. |    | 4th Qr. |    | 1959<br>Persons |
|--------------------------|------|----|---------|----|---------|----|---------|----|---------|----|-----------------|
|                          | M    | F  | M       | F  | M       | F  | M       | F  | M       | F  |                 |
| Home                     | 39   | 36 | 16      | 22 | 16      | 20 | 16      | 22 | 16      | 22 | 187             |
| Hospital                 | 39   | 40 | 38      | 32 | 39      | 27 | 36      | 35 | 36      | 35 | 286             |
| Elsewhere                | 2    | 1  | 3       | -  | 2       | 2  | -       | -  | -       | -  | 10              |
|                          | 80   | 77 | 57      | 54 | 57      | 49 | 52      | 57 | 52      | 57 | 483             |

Aged 75+

|           |    |    |    |    |    |    |    |    |     |
|-----------|----|----|----|----|----|----|----|----|-----|
| Home      | 19 | 21 | 11 | 15 | 5  | 16 | 8  | 15 | 110 |
| Hospital  | 15 | 22 | 8  | 6  | 12 | 10 | 13 | 14 | 100 |
| Elsewhere | -  | -  | -  | -  | -  | -  | -  | -  | -   |
|           | 34 | 43 | 19 | 21 | 17 | 26 | 21 | 29 | 210 |

All Ages 1960 1960

|           |    |    |    |    |    |    |    |    |     |
|-----------|----|----|----|----|----|----|----|----|-----|
| Home      | 32 | 28 | 27 | 30 | 22 | 17 | 15 | 17 | 188 |
| Hospital  | 32 | 34 | 34 | 33 | 26 | 23 | 41 | 42 | 265 |
| Elsewhere | 1  | -  | -  | -  | 1  | -  | 1  | -  | 3   |
|           | 65 | 62 | 61 | 63 | 49 | 40 | 57 | 59 | 456 |

Aged 75+

|           |    |    |    |    |    |    |    |    |     |
|-----------|----|----|----|----|----|----|----|----|-----|
| Home      | 16 | 15 | 11 | 20 | 6  | 11 | 7  | 8  | 94  |
| Hospital  | 9  | 16 | 11 | 14 | 6  | 11 | 9  | 19 | 95  |
| Elsewhere | -  | -  | -  | -  | -  | -  | -  | -  | -   |
|           | 25 | 31 | 22 | 34 | 12 | 22 | 16 | 27 | 189 |

TABLE VIIb - MAIN CAUSES OF DEATH, ETC.

ALL AGES (Registrar General's figures)

|      | All<br>causes | Main<br>causes | Other<br>causes | (440-468)*<br>Circulatory<br>diseases | Main Causes in Detail<br>(140-205)*<br>Cancer | (330-334)*<br>Vascular<br>les. C.N.S. | (470-527)*<br>Respiratory<br>diseases |
|------|---------------|----------------|-----------------|---------------------------------------|-----------------------------------------------|---------------------------------------|---------------------------------------|
| 1959 | 483           | 394            | 89              | 178                                   | 96                                            | 52                                    | 68                                    |
| %    | 100%          | 82%            | 18%             | 37%                                   | 20%                                           | 11%                                   | 14%                                   |
| 1960 | 455           | 374            | 81              | 167                                   | 97                                            | 57                                    | 53                                    |
| %    | 100%          | 82%            | 18%             | 37%                                   | 21%                                           | 12%                                   | 12%                                   |

England &amp; Wales

|      |         |         |        |         |        |        |        |
|------|---------|---------|--------|---------|--------|--------|--------|
| 1959 | 527,641 | 431,276 | 96,365 | 191,707 | 97,117 | 75,150 | 67,302 |
| %    | 100%    | 82%     | 18%    | 36%     | 19%    | 14%    | 13%    |
| 1960 | 526,268 | 431,135 | 95,133 | 198,438 | 98,788 | 76,222 | 57,687 |
| %    | 100%    | 82%     | 18%    | 38%     | 19%    | 14%    | 11%    |

AGED 75 YEARS AND OVER (Compiled locally)

1959

|        |            |            |           |           |           |           |           |
|--------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| 1st Qr | 77         | 69         | 8         | 39        | 6         | 8         | 16        |
| 2nd Qr | 40         | 35         | 5         | 19        | 6         | 6         | 4         |
| 3rd Qr | 43         | 34         | 9         | 18        | 4         | 5         | 7         |
| 4th Qr | 50         | 48         | 2         | 22        | 7         | 10        | 9         |
|        | <u>210</u> | <u>186</u> | <u>24</u> | <u>98</u> | <u>23</u> | <u>29</u> | <u>36</u> |
|        | 100%       | 89%        | 11%       | 47%       | 11%       | 14%       | 17%       |

1960

|        |            |            |           |           |           |           |           |
|--------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| 1st Qr | 56         | 47         | 9         | 23        | 5         | 11        | 8         |
| 2nd Qr | 56         | 52         | 4         | 21        | 10        | 12        | 9         |
| 3rd Qr | 34         | 29         | 5         | 13        | 6         | 6         | 4         |
| 4th Qr | 43         | 37         | 6         | 18        | 6         | 8         | 5         |
|        | <u>189</u> | <u>165</u> | <u>24</u> | <u>75</u> | <u>27</u> | <u>37</u> | <u>26</u> |
|        | 100%       | 87%        | 13%       | 40%       | 14%       | 19%       | 14%       |

DEATHS AT AGES OF 65 AND OVER AS PERCENTAGE OF DEATHS AT ALL AGES

|      | 65 to 74      |              | 75 and over   |              |
|------|---------------|--------------|---------------|--------------|
|      | Dartford R.D. | Eng. & Wales | Dartford R.D. | Eng. & Wales |
| 1958 | 123           | 25%          | 26%           | 211 43%      |
| 1959 | 112           | 23%          | 26%           | 210 43%      |
| 1960 | 111           | 24%          | 26%           | 181 40%      |

DEATHS BY SOCIAL CLASS

|              | 1959       | 1958        | 1957        | 1956        | 1955        |
|--------------|------------|-------------|-------------|-------------|-------------|
| Class I      | 17         | 4%          | 5%          | 4%          | 3%          |
| Class II     | 87         | 18%         | 15%         | 17%         | 18%         |
| Class III    | 196        | 40%         | 37%         | 34%         | 38%         |
| Class IV     | 85         | 18%         | 18%         | 22%         | 20%         |
| Class V      | 52         | 11%         | 15%         | 14%         | 16%         |
| Unclassified | 46         | 9%          | 10%         | 9%          | 5%          |
|              | <u>483</u> | <u>100%</u> | <u>100%</u> | <u>100%</u> | <u>100%</u> |

The practice of classifying deaths by social class was discontinued after 1959.

\*The figures refer to categories in the International Classification of Diseases, 1955.

TABLE VIII - PREVALENCE OF INFECTIOUS DISEASES

Notifiable diseases (other than tuberculosis)

| Disease            |       |     |     |     |      |       |       |       |        |       |
|--------------------|-------|-----|-----|-----|------|-------|-------|-------|--------|-------|
| General Population | Total | 0-1 | 1-3 | 3-5 | 5-10 | 10-15 | 15-25 | 25-45 | 45-65+ | Age ? |
| <u>1959</u>        |       |     |     |     |      |       |       |       |        |       |
| Measles            | 737   | 15  | 127 | 193 | 373  | 7     | 1     | 3     | 1      | 17    |
| Whooping cough     | 80    | 2   | 17  | 18  | 35   | 1     | -     | 1     | -      | 6     |
| Scarlet fever      | 43    | -   | 3   | 10  | 26   | 4     | -     | -     | -      | -     |
| Pneumonia          | 8     | 1   | 1   | -   | -    | 1     | -     | -     | 5      | -     |
| Polio myelitis     | 1     | -   | -   | -   | 1    | -     | -     | -     | -      | -     |
| Dysentery          | 33    | 1   | 5   | 3   | 16   | 2     | -     | 6     | 1      | -     |
|                    | 902   | 18  | 153 | 224 | 451  | 15    | 1     | 10    | 7      | 23    |

1960

|                |     |    |    |    |     |    |   |   |   |    |
|----------------|-----|----|----|----|-----|----|---|---|---|----|
| Measles        | 149 | 3  | 26 | 38 | 74  | 5  | - | - | - | 3  |
| Whooping cough | 133 | 5  | 28 | 33 | 54  | 7  | - | - | - | 6  |
| Scarlet fever  | 9   | -  | -  | 4  | 4   | 1  | - | - | - | -  |
| Pneumonia      | 8   | 2  | -  | 2  | 2   | 1  | - | - | 1 | -  |
| Dysentery      | 4   | -  | -  | 1  | -   | 1  | 1 | 1 | - | -  |
| Food poisoning | 34  | 3  | 2  | 2  | 6   | 5  | 5 | 8 | 2 | 1  |
| Erysipelas     | 1   | -  | -  | -  | -   | -  | - | - | 1 | -  |
|                | 338 | 13 | 56 | 80 | 140 | 20 | 6 | 9 | 4 | 10 |

Residential Institutions of more than 100 population1959

There was none

1960

|           |   |   |   |   |   |   |   |   |   |   |
|-----------|---|---|---|---|---|---|---|---|---|---|
| Pneumonia | 1 | - | - | - | - | - | - | - | 1 | - |
|-----------|---|---|---|---|---|---|---|---|---|---|

Measles (according to date of notification)

|           | November | December | January | February | March | April | Total |
|-----------|----------|----------|---------|----------|-------|-------|-------|
| 1951-1952 | -        | -        | -       | -        | 2     | 3     | 5     |
| 1952-1953 | 26       | 210      | 284     | 164      | 147   | 61    | 892   |
| 1953-1954 | -        | -        | -       | -        | -     | -     | -     |
| 1954-1955 | 1        | 1        | 5       | 4        | 43    | 76    | 130*  |
| 1955-1956 | -        | 1        | -       | 2        | -     | 4     | 7     |
| 1956-1957 | -        | -        | 16      | 26       | 153   | 119   | 314*  |
| 1957-1958 | -        | -        | 1       | -        | -     | 3     | 4     |
| 1958-1959 | 15       | 70       | 113     | 106      | 58    | 32    | 394*  |
| 1959-1960 | -        | 2        | -       | -        | -     | -     | 2     |
| 1960-1961 | 11       | 15       | 312     | 528      | 306   | 117   | 1,289 |

\*peak attained in a subsequent month.

TABLE VIII (continued)

## Measles (cont'd)

| <u>1959</u>    | Ash | Darenth | Eynsford | Farningham | Fawkham | Hartley | Horton Kirby | West Kingsdown | Longfield | Southfleet | Stone | Sutton-at-Hone | Swanley | Wilmington | TOTAL |
|----------------|-----|---------|----------|------------|---------|---------|--------------|----------------|-----------|------------|-------|----------------|---------|------------|-------|
| January        | 3   | 11      | -        | -          | -       | -       | 12           | 11             | -         | -          | 1     | 40             | 2       | 9          | 89    |
| February       | -   | 56      | -        | 1          | 5       | 9       | 2            | 3              | 7         | -          | 5     | 10             | 6       | 7          | 111   |
| March          | 3   | 4       | -        | 1          | 4       | -       | 2            | -              | -         | -          | 17    | 2              | 2       | 10         | 45    |
| April          | -   | 4       | 1        | -          | 1       | 4       | 1            | -              | 1         | -          | 30    | -              | 12      | 1          | 55    |
| May            | -   | 5       | 1        | 4          | -       | 31      | 21           | 2              | 4         | 1          | 89    | 1              | 15      | 5          | 179   |
| June           | 1   | 1       | 3        | 9          | 1       | -       | 5            | 1              | 2         | 19         | 6     | -              | 63      | 26         | 137   |
| July           | -   | -       | 7        | 13         | 2       | 4       | 2            | 2              | 1         | -          | 1     | 5              | 39      | 19         | 95    |
| August         | -   | -       | -        | 1          | -       | -       | -            | -              | -         | -          | -     | 1              | 6       | 13         | 21    |
| September      | -   | -       | -        | -          | -       | -       | -            | 1              | -         | -          | -     | -              | 1       | -          | 2     |
| October        | -   | -       | -        | -          | -       | -       | -            | 1              | -         | -          | -     | -              | -       | -          | 1     |
| November       | -   | -       | -        | -          | -       | -       | -            | -              | -         | -          | -     | -              | -       | -          | -     |
| December       | -   | 2       | -        | -          | -       | -       | -            | -              | -         | -          | -     | -              | -       | -          | 2     |
| Total for year | 7   | 83      | 12       | 29         | 13      | 48      | 45           | 21             | 15        | 20         | 149   | 59             | 146     | 90         | 737   |

| <u>1960</u>    |   |   |    |    |   |   |    |   |   |   |   |    |    |   |     |
|----------------|---|---|----|----|---|---|----|---|---|---|---|----|----|---|-----|
| January/April  | - | - | -  | -  | - | - | -  | - | - | - | - | -  | -  | - | -   |
| May            | - | - | 1  | -  | - | - | 14 | - | - | - | - | -  | -  | - | 15  |
| June           | - | - | 42 | 14 | - | - | 14 | 3 | - | - | - | 6  | 7  | - | 86  |
| July           | - | - | 12 | -  | - | - | 6  | - | - | - | - | -  | 2  | - | 20  |
| August         | - | - | -  | -  | - | - | -  | - | - | - | - | -  | 2  | - | 2   |
| Sept./Oct.     | - | - | -  | -  | - | - | -  | - | - | - | - | -  | -  | - | -   |
| November       | - | - | -  | -  | - | - | -  | - | - | - | 4 | 2  | 1  | 4 | 11  |
| December       | - | 7 | -  | -  | - | - | -  | - | - | - | 3 | 3  | 1  | 1 | 15  |
| Total for year | - | 7 | 55 | 14 | - | - | 34 | 3 | - | - | 7 | 11 | 13 | 5 | 149 |

Non-notifiable diseases

The following non-notifiable diseases were reported from the schools:

|                | 1959 | 1960 |
|----------------|------|------|
| German measles | 6+   | 1    |
| Chicken pox    | 13   | 77+  |
| Ringworm       | -    | 1    |
| Ear infection  | -    | 1    |
| Impetigo       | 3    | 4    |
| Mumps          | 4    | 109  |

TABLE IX - TUBERCULOSIS, 1959 &amp; 1960

## (a) RESPIRATORY

## NOTIFICATIONS IN RECENT YEARS

|      |    |      |    |
|------|----|------|----|
| 1953 | 53 | 1957 | 33 |
| 1954 | 27 | 1958 | 25 |
| 1955 | 36 | 1959 | 27 |
| 1956 | 29 | 1960 | 25 |

## NOTIFICATIONS BY AGE

|         | Total | 0-1 | 1-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65+ |
|---------|-------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-----|
| 1959    |       |     |     |     |       |       |       |       |       |       |       |     |
| Males   | 18    | -   | 2   | 4   | 1     | 1     | 1     | 1     | 4     | 1     | 3     | -   |
| Females | 9     | -   | 2   | -   | -     | 1     | 2     | 1     | 1     | 2     | -     | -   |
|         | 27    | -   | 4   | 4   | 1     | 2     | 3     | 2     | 5     | 3     | 3     | -   |

Of the 18 males notified 1 was resident in a mental hospital and of the remaining 17 there were 5 infectious their ages being 22, 32, 38, 49 and 57. The 9 females notified were all non-infectious.

|         | Total | 0-1 | 1-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65+ |
|---------|-------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-----|
| 1960    |       |     |     |     |       |       |       |       |       |       |       |     |
| Males   | 17    | -   | -   | -   | -     | 3     | 1     | 1     | 1     | 8     | 1     | 2   |
| Females | 8     | -   | 1   | -   | -     | 1     | 1     | -     | -     | 2     | 1     | 2   |
|         | 25    | -   | 1   | -   | -     | 4     | 2     | 1     | 1     | 10    | 2     | 4   |

Of the 17 males notified 10 were residents in a mental hospital and the notification of 7 of these was the result of a review of the register. Of the remaining 7 3 were infectious, their ages being 17 (a kitchen hand), 23 and 49. Of the 8 females notified 4 were residents of mental hospitals, 2 being notified as a result of a review of the register. Of the remaining 4 2 were infectious, 1 was aged 53 and was the mother in a household of 8, the other was aged 75 and was notified a few days before death from tuberculous pneumonia, she was one of a house of 7.

## NUMBER OF CASES OF RESPIRATORY TUBERCULOSIS ON THE REGISTER

|                                | Male | Female | Persons |
|--------------------------------|------|--------|---------|
| Number on register at 31.12.53 | 201  | 127    | 328     |
| -ditto- 31.12.54               | 211  | 129    | 340     |
| -ditto- 31.12.55               | 228  | 144    | 372     |
| -ditto- 31.12.56               | 245  | 165    | 410     |
| -ditto- 31.12.57               | 265  | 181    | 446     |
| -ditto- 31.12.58               | 252  | 175    | 427     |
| -ditto- 31.12.59               | 253  | 187    | 440     |
| -ditto- 31.12.60               | 254  | 193    | 447     |

## CHANGES IN THE REGISTER IN 1959 &amp; 1960 WERE AS FOLLOWS

| Additions:           | 1959 | 1960 | Removals:       | 1959 | 1960 |
|----------------------|------|------|-----------------|------|------|
| New notifications    | 27   | 25   | Lost sight of   | 6    | 2    |
| Came into district   | 35   | 28   | Left district   | 18   | 23   |
| Restored to register | 3    | 4    | Died            | 8    | 7    |
|                      | —    | —    | Recovered       | 18   | 18   |
|                      | 65   | 57   | Not tuberculous | 2    | -    |
|                      | —    | —    |                 | —    | —    |
|                      |      |      |                 | 52   | 50   |
|                      |      |      |                 | —    | —    |

# TABLE IX (continued)

## DEATHS

1959

Of the 8 cases removed from the register by death tuberculosis was given as the underlying cause in 3. These were: a male resident of a mental hospital aged 32 years, a male aged 57 whose tuberculosis became reactive and died from miliary tuberculosis and a male aged 73.

Tuberculosis was given as a contributory cause in a male aged 63.

Tuberculosis was not mentionèd in the remaining 4 and included amongst these was a carcinoma of the bronchus due to industrial pulmonary fibrosis.

1960

Of the 7 cases removed from the register by death tuberculosis was given as the underlying cause in 2. These were: the female aged 75 mentioned above, who died from tuberculous pneumonia and a male aged 40 who died from chronic pulmonary tuberculosis.

Tuberculosis was mentioned as a contributory cause in a male aged 43.

Of the remaining 4 carcinoma of the bronchus was given as the underlying cause in a male aged 59 and chronic bronchitis was mentioned as a contributory cause in a male aged 63. In one case, a resident of a mental hospital, the death from other causes in 1956 only became known to us in 1960.

The following deaths were of persons whose names were not on the tuberculosis register:-

1959

A male aged 78. Miliary tuberculosis given as a contributory cause of death.

A male aged 76. Bronchitis given as the underlying cause with tuberculosis as a contributory cause.

1960

A female aged 46 who died from tuberculous broncho pneumonia.

## (b) NON-RESPIRATORY

### NOTIFICATIONS IN RECENT YEARS

|      |   |      |    |
|------|---|------|----|
| 1953 | 5 | 1957 | 3  |
| 1954 | 5 | 1958 | 4  |
| 1955 | 7 | 1959 | 10 |
| 1956 | 1 | 1960 | 5  |

The 10 notifications received in 1959 referred to the following organs: "glands" 3, kidneys 3, endometrium 2, pelvic organs 2.

The notifications received in 1960 referred to the following organs: "abdomen" 1, skin 2 (one of these notified as tuberculosis of lungs in 1943 and lost sight of by 1958), spine 1, endometrium 1.

TABLE IX (continued)

## NUMBER OF CASES OF NON-RESPIRATORY TUBERCULOSIS ON THE REGISTER

|                       |          | Male | Female | Persons |
|-----------------------|----------|------|--------|---------|
| Number on register at | 31.12.53 | 27   | 28     | 55      |
| -ditto-               | 31.12.54 | 28   | 32     | 60      |
| -ditto-               | 31.12.55 | 28   | 30     | 58      |
| -ditto-               | 31.12.56 | 29   | 30     | 59      |
| -ditto-               | 31.12.57 | 28   | 27     | 55      |
| -ditto-               | 31.12.58 | 23   | 16     | 39      |
| -ditto-               | 31.12.59 | 22   | 19     | 41      |
| -ditto-               | 31.12.60 | 23   | 23     | 46      |

## CHANGES IN THE REGISTER IN 1959 &amp; 1960 WERE AS FOLLOWS

| Additions:           | 1959 | 1960 | Removals:               | 1959 | 1960 |
|----------------------|------|------|-------------------------|------|------|
| New notifications    | 10   | 5    | Lost sight of           | 3    | -    |
| Came into district   | 1    | 2    | Left district           | 3    | 2    |
| Restored to register | -    | 2    | Died                    | -    | -    |
|                      | —    | —    | Recovered               | 4    | 1    |
|                      | 11   | 9    | Diagnosis not confirmed | -    | 1    |
|                      | —    | —    |                         | —    | —    |
|                      |      |      |                         | 10   | 4    |
|                      |      |      |                         | —    | —    |

## DEATHS IN 1959 &amp; 1960

There was none.

## (c) MASS X-RAY SURVEYS

|                                   | 1959                            |   |                |     | 1960         |     |
|-----------------------------------|---------------------------------|---|----------------|-----|--------------|-----|
|                                   | Johnsons & Kent<br>Cement Works |   | General Public |     | Industry*    |     |
|                                   | M                               | F | M              | F   | M            | F   |
| Persons X-rayed                   | 329                             | - | 424            | 457 | 1,555        | 443 |
| Tuberculosis                      |                                 |   |                |     |              |     |
| (a) no further action             | -                               | - | -              | -   | -            | -   |
| (b) occasional supervision        | -                               | - | 2              | 1   | 14           | 2   |
| (c) close supervision             | 2                               | - | -              | -   | 1            | 2   |
| (d) refused further investigation | 1                               | - | -              | -   | 1            | -   |
| Cancer of the lung                | -                               | - | 1              | 1   | 2) } Persons |     |
| Diseases other than above         | 8                               | - | 3              | -   |              |     |

\*This includes 119 men and 43 women of the general public from Swanley and also the Empire Paper Mills, Swanscombe.

# TABLE X - VACCINATIONS

## (a) DIPHTHERIA

From the figures supplied by the County Medical Officer the following are derived:

### INOCULATIONS DONE EACH YEAR:

|      | Age at 31st<br>December | Primary inoculations<br>done in the year | Reinforcing inoculations<br>done in the year |
|------|-------------------------|------------------------------------------|----------------------------------------------|
| 1960 | 0- 4 years              | 1022                                     | 132                                          |
|      | 5-14 years              | 43                                       | 328                                          |
| 1959 | 0- 4 years              | 751                                      | 55                                           |
|      | 5-14 years              | 27                                       | 277                                          |
| 1958 | 0- 4 years              | 661                                      | 39                                           |
|      | 5-14 years              | 23                                       | 277                                          |

PERCENTAGE OF CHILDREN WITH EFFECTIVE IMMUNITY - Immunisation is effective for about five years and then requires to be reinforced. Assuming the child population to be 3,175 at 0-4 years, 5,319 at 5-14 years, i.e. 8,494 at 0-14 years, the following percentages of children immune are calculated. In view of the changing birth rate and development of the district, these population figures for recent years are unreliable and are less than the true figures and, therefore, the percentages are less than those shown.

| December 31st | Age group  | Vaccinated<br>at any time | Vaccinated in<br>last 5 years | Percentage<br>children immune |
|---------------|------------|---------------------------|-------------------------------|-------------------------------|
| 1960          | 0- 4 years | 2,957                     | 2,957                         | 94%                           |
|               | 5-14 years | <u>4,989</u>              | <u>2,463</u>                  | <u>46%</u>                    |
|               |            | 7,946                     | 5,420                         | 64%                           |
| 1959          | 0- 4 years | 2,371                     | 2,371                         | 74%                           |
|               | 5-14 years | <u>4,681</u>              | <u>2,326</u>                  | <u>44%</u>                    |
|               |            | 7,052                     | 4,697                         | 55%                           |
| 1958          | 0- 4 years | 2,026                     | 2,026                         | 64%                           |
|               | 5-14 years | <u>4,456</u>              | <u>2,329</u>                  | <u>44%</u>                    |
|               |            | 6,482                     | 4,355                         | 51%                           |

INFANT VACCINATION RATE - Percentage of those born in a given year who were vaccinated in that year or the next:-

| Year of birth | Number of<br>live births | Year<br>vaccinated | Number<br>vaccinated | %  | Total | %  |
|---------------|--------------------------|--------------------|----------------------|----|-------|----|
| 1960          | 1,068                    | 1960               | 412                  | 39 | ?     | ?  |
|               |                          | 1961               | ?                    | ?  |       |    |
| 1959          | 979                      | 1959               | 190                  | 19 | 715   | 73 |
|               |                          | 1960               | 525                  | 54 |       |    |
| 1958          | 941                      | 1958               | 140                  | 15 | 631   | 67 |
|               |                          | 1959               | 491                  | 52 |       |    |
| 1957          | 848                      | 1957               | 62                   | 7  | 504   | 60 |
|               |                          | 1958               | 442                  | 53 |       |    |

### Vaccination by age at date of vaccination:

|      | Number of<br>live births | Number under 1 year<br>of age, vaccinated | Percentage of births<br>of previous year |
|------|--------------------------|-------------------------------------------|------------------------------------------|
| 1960 |                          | No figures supplied                       |                                          |
| 1959 |                          | 584                                       | 62%                                      |
| 1958 | 941                      | 452                                       | 48%                                      |
| 1957 | 848                      |                                           |                                          |

TABLE X (continued)

## COMPARISON WITH OTHER AREAS (Diphtheria)

|                                                                                                   | Dartford<br>Rural Dist. | Dartford<br>Borough | Kent<br>A.C. | England &<br>Wales |
|---------------------------------------------------------------------------------------------------|-------------------------|---------------------|--------------|--------------------|
| Percentage of those born<br>in 1958 vaccinated in 1958<br>or 1959                                 | 67%                     | 68%                 | 60%          | -                  |
| Percentage of those born<br>in 1959 vaccinated in 1959<br>or 1960                                 | 73%                     | 75%                 | 67%          | -                  |
| Percentage of births of<br>previous year of those<br>vaccinated at age of under<br>1 year in 1959 | 62%                     | 65%                 | -            | -                  |
| There are no figures<br>available for 1960                                                        |                         |                     |              |                    |
| Percentage of children under<br>15 years vaccinated in the 5<br>years ended 31.12.59.             | 55%                     | 50%                 | 47%          | 46%                |
| 31.12.60.                                                                                         | 64%                     | 54%                 | 48%          | 48%                |
| Percentage of children vac-<br>cinated under 5 years on                                           |                         |                     |              |                    |
| 31.12.59.                                                                                         | 74%*                    | 60%                 | 55%          | 56%                |
| 31.12.60.                                                                                         | 94%*                    | 70%                 | 62%          | 61%                |

\*based on 1951 census figures and therefore these percentages are unduly large.

## VACCINATION DONE BY GENERAL PRACTITIONERS AND CLINICS

| Children aged under one year at<br>completion of primary vaccination |                                           |                          |       |                                        |
|----------------------------------------------------------------------|-------------------------------------------|--------------------------|-------|----------------------------------------|
| 1959                                                                 | Vaccinated<br>by general<br>practitioners | Vaccinated<br>at clinics | Total | Percentage<br>vaccinated<br>at clinics |
| Borough of Dartford                                                  | 264                                       | 184                      | 448   | 41%                                    |
| Rural District of Dartford                                           | 237                                       | 347                      | 584   | 59%                                    |
| Northfleet Urban District                                            | 75                                        | 127                      | 202   | 62%                                    |
| Swanscombe Urban District                                            | 42                                        | 46                       | 88    | 52%                                    |

1960 No figures have been provided.

## (b) SMALLPOX

## NUMBERS VACCINATED:

|      |              | Age at December 31st |       |        |
|------|--------------|----------------------|-------|--------|
|      |              | Under 1              | 1 - 4 | 5 - 14 |
| 1960 | Vaccinated   | 348                  | 391   | 22     |
|      | Revaccinated | -                    | -     | 1      |
| 1959 | Vaccinated   | 340                  | 352   | 11     |
|      | Revaccinated | -                    | -     | 3      |
| 1958 | Vaccinated   | 256                  | 219   | 5      |
|      | Revaccinated | -                    | 2     | 14     |

TABLE X (continued)

## INFANT VACCINATION RATE (Smallpox)

Percentage of those born in a given year who were vaccinated in that year or the next:

| Year of birth | Number of<br>live births | Year<br>vaccinated | Number<br>vaccinated | %  | Total | %  |
|---------------|--------------------------|--------------------|----------------------|----|-------|----|
| 1960          | 1,068                    | 1960               | 348                  | 33 | ?     | ?  |
|               |                          | 1961               | ?                    | ?  |       |    |
| 1959          | 979                      | 1959               | 340                  | 35 | 694   | 71 |
|               |                          | 1960               | 354                  | 36 |       |    |
| 1958          | 941                      | 1958               | 256                  | 27 | 584   | 62 |
|               |                          | 1959               | 288                  | 34 |       |    |

Vaccination by age at date of vaccination:

|      | Number of<br>live births | Number vaccinated by<br>age at date of<br>vaccination |       |        | Percentages of<br>births of those vaccinated<br>under one year |
|------|--------------------------|-------------------------------------------------------|-------|--------|----------------------------------------------------------------|
|      |                          | Under 1                                               | 1 - 4 | 5 - 14 |                                                                |
| 1960 | 1,068                    | No similar figures supplied                           |       |        |                                                                |
| 1959 | 979                      | 646                                                   | 44    | 12     | 66%                                                            |
| 1958 | 941                      | 447                                                   | 29    | 4      | 47%                                                            |
| 1957 | 848                      | 484                                                   | 45    | 54     | 58%                                                            |

## VACCINATIONS DONE BY PRIVATE DOCTORS AND CLINICS

There is no analysis for 1960, the analysis for 1959 is as follows:

| Age group      | Vaccinated      |         | Revaccinated    |         |
|----------------|-----------------|---------|-----------------|---------|
|                | Private Doctors | Clinics | Private Doctors | Clinics |
| Under 1        | 245             | 401     | -               | -       |
| 1 - 4          | 14              | 30      | -               | -       |
| 5 - 14         | 7               | 5       | 3               | 1       |
| Total under 15 | 266             | 436     | 3               | 1       |

## COMPARISON WITH OTHER AREAS

|                                                                                  | Dartford<br>Rural Dist. | Dartford<br>Borough | Kent<br>A.C. | England &<br>Wales |
|----------------------------------------------------------------------------------|-------------------------|---------------------|--------------|--------------------|
| Percentage of<br>those born in<br>1958 vaccinated<br>in 1958 or 1959             | 62%                     | 62%                 | 60%          | -                  |
| Percentage of<br>those born in<br>1959 vaccinated<br>in 1959 or 1960             | 71%                     | 67%                 | 62%          | -                  |
| Percentage of 1959<br>births of those<br>vaccinated in 1959<br>at age of under 1 | 66%                     | 62%                 | 57%          | 45%                |
| Percentage of 1960<br>births of those<br>vaccinated in 1960<br>at age of under 1 | No figures available    |                     | 57%          | 41%                |

TABLE X (continued)

## REVACCINATION - At school age (Smallpox)

The number of children due each year for revaccination in school life (assuming only one revaccination during that period) is roughly the number of infant vaccinations done five years previously and the percentage re-vaccinated is shown by the following calculations:

|                                                       | Dartford<br>Rural Dist. | Dartford<br>Borough | Kent<br>A.C. | England &<br>Wales |
|-------------------------------------------------------|-------------------------|---------------------|--------------|--------------------|
| Infants born in 1954<br>vaccinated in 1954 or 1955    | 343                     | 340                 | 13,967       | 234,587            |
| Children aged 5-14<br>revaccinated in 1959            | 3                       | 8                   | 285          | 10,228             |
| Percentage of possible<br>number revaccinated in 1959 | 1%                      | 2%                  | 2%           | 4%                 |
| Infants born in 1955<br>vaccinated in 1955 or 1956    | 383                     | 334                 | 14,407       | 251,819            |
| Children aged 5-14<br>revaccinated in 1960            | 1                       | -                   | 142          | 10,965             |
| Percentage of possible<br>number revaccinated in 1960 | 0%                      | 0%                  | 1%           | 4%                 |

## (c) POLIOMYELITIS

The number of second injections given have been as follows:

|            | 1959         | 1960         |
|------------|--------------|--------------|
| 0-14 years | 2,055        | 888          |
| Others     | 2,735        | 1,627        |
|            | <u>4,790</u> | <u>2,515</u> |

Third injections - these were begun in 1958 and were as follows:

| Born | 1958       | 1959         | 1960         | Total        |
|------|------------|--------------|--------------|--------------|
| 1960 |            |              | 6            | 6            |
| 1959 |            |              | 327          | 327          |
| 1958 |            | 331          | 434          | 765          |
| 1957 | 18         | 538          | 135          | 691          |
| 1956 | 53         | 519          | 89           | 661          |
| 1955 | 35         | 467          | 74           | 576          |
| 1954 | 22         | 467          | 87           | 576          |
| 1953 | 24         | 453          | 64           | 541          |
| 1952 | 13         | 435          | 73           | 521          |
| 1951 | 16         | 462          | 63           | 541          |
| 1950 | 20         | 387          | 60           | 467          |
| 1949 | 16         | 422          | 55           | 493          |
| 1948 | 11         | 441          | 70           | 522          |
| 1947 | 13         | 466          | 66           | 545          |
| 1946 | 1          | 440          | 52           | 493          |
|      | <u>242</u> | <u>5,828</u> | <u>1,655</u> | <u>7,725</u> |

In 1951 the age group 0-14 years was 23% of the population and assuming this percentage is approximately the same, there would be in 1960 a population of 12,000 aged 0-14 years. Relating the 7,725 third injections to this 12,000 gives a vaccination rate of 64%.

TABLE X (continued)

## (d) WHOOPING COUGH

The number of children who received primary vaccination against whooping cough were as follows:

|      | Age at 31st December |       |        |
|------|----------------------|-------|--------|
|      | Under 1              | 1 - 4 | 5 - 14 |
| 1960 | 413                  | 525   | 23     |
| 1959 | 357                  | 455   | 11     |

## INFANT VACCINATION RATE

Percentage of those born in a given year who were vaccinated in that year or the next:

| Year of birth | Number of live births | Year vaccinated | Number vaccinated | %        | Total | %  |
|---------------|-----------------------|-----------------|-------------------|----------|-------|----|
| 1960          | 1,068                 | 1960<br>1961    | 413<br>?          | 39       | ?     | ?  |
| 1959          | 979                   | 1959<br>1960    | 357<br>469        | 37<br>48 | 826   | 85 |
| 1958          | 941                   | 1958<br>1959    | 275<br>417        | 29<br>44 | 692   | 74 |

## COMPARISON WITH OTHER AREAS

|                                                             | Dartford R.D. | Dartford B. | Kent A.C. |
|-------------------------------------------------------------|---------------|-------------|-----------|
| Percentage of those born in 1958 vaccinated in 1958 or 1959 | 74%           | 74%         | 69%       |
| Percentage of those born in 1959 vaccinated in 1959 or 1960 | 85%           | 94%         | 78%       |

In England and Wales in 1959 the number of children aged 0-4 years who completed a primary course of vaccination was 510,748. The large majority was vaccinated in the first year of life and so this figure can be related to the number of live births, 748,501, which gives a vaccination rate of 69%, for 1960 the percentage was 76%.

## (e) TUBERCULOSIS

Children in close contact with patients suffering from tuberculosis are, if necessary, vaccinated with B.C.G. The following vaccinations were carried out at the Chest Clinic, Dartford:-

|                                | Dartford Rural District |      | Dartford Borough |      |
|--------------------------------|-------------------------|------|------------------|------|
|                                | 1959                    | 1960 | 1959             | 1960 |
| Children under 15 years of age | 160                     | 139  | 133              | 126  |

Some persons attend other clinics and, therefore, these figures are incomplete.

Vaccination of school children is carried out by the School Health Services. These children are skin tested and those who do not react are vaccinated. Those who do react are referred to the Chest Physician for further investigation. Figures are not available for the Rural District or the Borough.

TABLE XI - ACCIDENTS IN THE HOME

Persons receiving in-patient treatment  
at the Dartford Group of Hospitals

|      | Age    | Falls      | Burns &<br>Scalds | Poisoning | Other | Total |
|------|--------|------------|-------------------|-----------|-------|-------|
| 1960 |        |            |                   |           |       |       |
|      | 0 - 4  | 3          | 2                 | 1         | 3     | 9     |
|      | 5 - 64 | 3          | 4                 | 2         | 4     | 13    |
|      | 65+    | 11(7 died) | -                 | -         | -     | 11    |
|      |        | 17         | 6                 | 3         | 7     | 33    |
| 1959 |        |            |                   |           |       |       |
|      | 0 - 4  | 1          | 2                 | -         | -     | 3     |
|      | 5 - 64 | 5          | 1                 | 1         | 2     | 9     |
|      | 65+    | 5          | 1(died)           | -         | -     | 6     |
|      |        | 11         | 4                 | 1         | 2     | 18    |

Deaths at Home

|      |       |   |   |   |   |   |
|------|-------|---|---|---|---|---|
| 1960 | 0 - 4 | 1 | - | - | - | 1 |
| 1959 | 65+   | 1 | - | - | - | 1 |

Length of stay in Hospital

|      | Under 1 week | 1- | 2- | 3- | 4- | 8- | 12- | 13+ | ? | Cases |
|------|--------------|----|----|----|----|----|-----|-----|---|-------|
| 1960 | 9            | 4  | 1  | 5  | 5  | 5  | -   | 3   | 1 | 33    |
| 1959 | 9            | 4  | 1  | -  | 2  | 2  | -   | -   | - | 18    |

Persons receiving in-patient treatment  
at other Hospitals

1960

There were no cases treated at either Queen Mary's Hospital, Sidcup, or The Gravesend and North Kent Hospital.

1959

There were no cases treated at Queen Mary's Hospital, Sidcup, but six patients were admitted to the Gravesend and North Kent Hospital, three from Greenhithe, two from Longfield and one from Southfleet. Their length of stay in hospital is not known.

# ENVIRONMENTAL MATTERS

## I - HOUSING

NEW HOUSES: The following dwellings have been completed in the last five years:-

|                                    | 1956         | 1957       | 1958       | 1959       | 1960       |
|------------------------------------|--------------|------------|------------|------------|------------|
| By Dartford Rural District Council | 106          | 182        | 110        | 88         | 131        |
| By Dartford Borough Council        | 219          | 46         | -          | -          | -          |
| By private enterprise              | 693          | 638        | 632        | 637        | 430        |
|                                    | <u>1,018</u> | <u>866</u> | <u>742</u> | <u>725</u> | <u>561</u> |

HOUSING PROVIDED BY COUNCIL: The effective waiting list of housing applicants at the end of March, 1960 and March, 1961, numbered 1,074 and 1,092 respectively (exclusive of engaged couples), the total registered applications for 1959 being 1,258 and for 1960, 1,323. 165 families were rehoused during the year ended March, 1960 and 213 families were rehoused during the year ended March 1961, by the Council.

### Families Rehoused:

|                        | April-March<br>1958-59 | April-March<br>1959-60 | April-March<br>1960-61 |
|------------------------|------------------------|------------------------|------------------------|
| Ash-cum-Ridley         | 3                      | 1                      | 2                      |
| Fawkham                | -                      | -                      | 2                      |
| Hartley                | 2                      | 1                      | 3                      |
| West Kingsdown         | 1                      | 3                      | 12                     |
| Longfield              | 5                      | 5                      | 3                      |
| Southfleet             | 3                      | 1                      | 7                      |
| Betsham                | 2                      | 1                      | 3                      |
| Bean                   | 2                      | 1                      | 1                      |
| Darenth                | 17                     | 11                     | 14                     |
| Stone                  | 27                     | 25                     | 21                     |
| Eynsford               | 1                      | 5                      | 10                     |
| Farningham             | 3                      | 3                      | 8                      |
| Horton Kirby           | 2                      | 8                      | 11                     |
| South Darenth          | 2                      | 6                      | 6                      |
| Sutton-at-Hone         | 7                      | 7                      | 7                      |
| Swanley                | 30                     | 41                     | 52                     |
| Crockenhill            | 5                      | 6                      | 9                      |
| Hextable               | 6                      | 7                      | 17                     |
| Wilmington             | 8                      | 11                     | 6                      |
| Hawley                 | 1                      | 5                      | 1                      |
| Outside Rural District | 13                     | 17                     | 18                     |
|                        | <u>140</u>             | <u>165</u>             | <u>213</u>             |

During the above three years 178, 165 and 170 Council tenants were moved to accommodation more suited to their requirements.

### HOUSING PRIORITY ON MEDICAL GROUNDS:

| Tuberculosis                              |                     |       |        | Other than Tuberculosis                   |               |       |    |
|-------------------------------------------|---------------------|-------|--------|-------------------------------------------|---------------|-------|----|
| No. of Applications<br>for Council accom. | No. of Points given |       |        | No. of applications<br>for Council accom. | No. of Points |       |    |
|                                           | 0                   | 1 - 5 | 6 - 10 |                                           | 0             | 1 - 5 |    |
| <u>1957</u>                               | 20                  | 5     | 12     | <u>1957</u>                               | 70            | 24    | 46 |
| <u>1958</u>                               | 9                   | 3     | 5      | <u>1958</u>                               | 67            | 17    | 50 |
| <u>1959</u>                               | 15                  | 4     | 6      | <u>1959</u>                               | 78            | 26    | 52 |
| <u>1960</u>                               | 2                   | -     | 2      | <u>1960</u>                               | 79            | 23    | 56 |

Appl. for transfer  
from Council tenants

|             |   |   |   |   |             |    |   |    |
|-------------|---|---|---|---|-------------|----|---|----|
| <u>1957</u> | 1 | 1 | - | - | <u>1957</u> | 13 | 4 | 9  |
| <u>1958</u> | - | - | - | - | <u>1958</u> | 8  | 3 | 5  |
| <u>1959</u> | - | - | - | - | <u>1959</u> | 17 | 3 | 14 |
| <u>1960</u> | - | - | - | - | <u>1960</u> | 9  | 1 | 8  |

# HOUSING (continued)

## HOUSING PRIORITY ON MEDICAL GROUNDS (cont'd)

Number rehoused after being awarded some degree of medical priority:

|             | Tuberculosis | Other than Tuberculosis |
|-------------|--------------|-------------------------|
| <u>1957</u> | 6            | 11                      |
| <u>1958</u> | 4            | 18                      |
| <u>1959</u> | 5            | 15                      |
| <u>1960</u> | 6            | 28                      |

IMPROVEMENTS: In 1959, 50 applications for discretionary and 16 applications for standard grants under the Housing Acts were received, relating to 83 houses and a grant was made in all cases except 2. The lowest estimates for the improvement works contemplated with discretionary grants summed up to £21,293. The discretionary grants approved totalled £7,315 and the cost of providing the standard amenities applied for amounted to £1,870.

In 1960, 34 applications for discretionary and 39 applications for standard grants under the Housing Acts were received, relating to 74 houses and a grant was made in all cases except 2. The lowest estimates for the improvement works contemplated with discretionary grants summed up to £16,796. The discretionary grants approved totalled £5,986 and the cost of providing the standard amenities applied for amounted to £4,185.

In 1959, improvement work with the aid of a discretionary grant was completed in 38 houses, with a total grant of £8,045. During this year improvement work with the aid of a standard grant was completed in 2 houses, with a total grant of £130.

In 1960, improvement work with the aid of a discretionary grant was completed in 32 houses, with a total grant of £5,202. During this year improvement work with the aid of a standard grant was completed in 25 houses, with a total grant of £2,059.

544 visits in 1959 and 653 in 1960 were made in connection with this work.

## UNFIT HOUSES MADE FIT

|                                                  | By Owner |      | By Local Authority |      |
|--------------------------------------------------|----------|------|--------------------|------|
|                                                  | 1959     | 1960 | 1959               | 1960 |
| After informal action by local authority         | 77       | 73   | -                  | -    |
| After formal notice under (a) Public Health Acts | 20       | 12   | 2                  | -    |
| (b) Sections 9 & 16 Housing Act, '57             | 3        | 4    | -                  | -    |

REPAIRS: The following are the details of repairs initiated by the Council's Public Health Inspectors:-

|                                                  | 1959 | 1960 |
|--------------------------------------------------|------|------|
| Floors repaired                                  | 12   | 18   |
| Roofs repaired                                   | 35   | 40   |
| Doors repaired or renewed                        | 15   | 9    |
| Water supply restored and pipes repaired         | 8    | 3    |
| Windows repaired including sash cords etc.       | 75   | 21   |
| New W.C. pans provided                           | 4    | 5    |
| Flushing cisterns repaired or renewed            | 6    | 6    |
| Plaster work repaired                            | 32   | 27   |
| Rain-water pipes and gutters repaired or renewed | 26   | 16   |
| Dampness to walls abated                         | 3    | 1    |

# HOUSING (continued)

## REPAIRS (cont'd)

|                                                       | 1959  | 1960  |
|-------------------------------------------------------|-------|-------|
| Damp proof courses provided                           | 9     | 1     |
| New dustbins provided                                 | 5     | -     |
| Chimney stacks repaired                               | 4     | 6     |
| Walls repaired externally                             | 23    | 17    |
| Fireplaces repaired or renewed                        | 5     | 1     |
| Yard paving repaired or relaid                        | 7     | 3     |
| Sub-floor ventilation provided                        | -     | 1     |
| Sink waste pipes repaired                             | 8     | 3     |
| New sinks provided                                    | -     | 4     |
| New flushing cisterns provided                        | 5     | -     |
| Visits paid by the Council's Public Health Inspectors | 2,017 | 2,155 |

RENT ACT, 1957: The following certificates have been received and issued:-

|                                                                                 | 1959 | 1960 |
|---------------------------------------------------------------------------------|------|------|
| Applications received for Certificates of Disrepair                             | 9    | 6    |
| Notices issued to landlords (Form J)                                            | 10   | -    |
| Undertakings received from landlords (Form K)                                   | 7    | 1    |
| Certificates of Disrepair issued                                                | 7    | 5    |
| Applications received for cancellation of<br>Certificates of Disrepair (Form M) | 2    | -    |
| Certificates of Disrepair cancelled                                             | 3    | -    |
| Certificates issued as to remedying defects (Form P)                            | 1    | -    |
| Visits paid by the Council's Public Health Inspectors                           | 58   | 26   |

## HOUSES DEMOLISHED - HOUSING ACT, 1957.

|                                         | Houses<br>demolished |      |
|-----------------------------------------|----------------------|------|
|                                         | 1959                 | 1960 |
| In Clearance Areas: (Housing Act, 1957) |                      |      |
| Houses unfit                            | Nil                  | Nil  |
| Not in Clearance Areas:                 |                      |      |
| As a result of action under section 17  | 8                    | 16   |
| Unfit Houses Closed:                    |                      |      |
| Under sections 16 and 17 etc.           | 13                   | 11   |

ADDRESSES OF HOUSES DEMOLISHED OR CLOSED: Where names of properties appear in both years the properties were closed in 1959 and demolished in 1960.

1959 - Section 17 etc.

1, 2 and 3, The Rookery, Darenth.  
Bungalow at rear of Cromwell Villas,  
Main Road, Sutton-at-Hone.  
Well Cottage, Dean Bottom, Horton  
Kirby.  
Russell House, Horton Kirby.  
1 & 9, Sharps Row, Horton Kirby.  
9,10,11, Mile End Green Cotts., Pinden.  
2, Wood Lane, Darenth.

Alfada, 17 Ashen Grove, West  
Kingsdown.  
Spring Villa, Hawley Rd., Hawley.  
Ironworks Cottage, High Street,  
Eynsford.  
2, Ship Cotts., Green St. Green.  
3 & 4, Lambcliffe, Stone.  
Excelsior, West Kingsdown.  
5/6, Whitewood Cotts., Eynsford.

# HOUSING (continued)

## ADDRESSES OF HOUSES DEMOLISHED OR CLOSED (cont'd)

1960 - Section 17 etc.

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Test Cottage, Mable Road, Hextable. | Hillside Annexe, Darenth.         |
| 2/7, Whitbread Cottages, Darenth.   | 38,40,42,44, Main Road,           |
| Cedar Lawn Cottage, Devon Road,     | Sutton-at-Hone.                   |
| Sutton-at-Hone.                     | The Hazels, Hever Avenue,         |
| 2 & 4, Broad Lane, Wilmington.      | West Kingsdown.                   |
| 2/8 & 10, Sharps Row, Horton Kirby. | 2, Poplar Cottages, Horton Kirby. |
| The Flat, Consul House, Hextable.   | Hook Green Cottage, Wilmington.   |

## DEMOLITION AND CLOSING ORDERS MADE:

|                                                      | 1959 | 1960 |
|------------------------------------------------------|------|------|
| Number of demolition orders issued                   | 10   | 10   |
| Number of closing orders issued                      | 3    | 2    |
| Number of undertakings not to be used for habitation | 1    | 3    |

## PERSONS DISPLACED IN 1959 and 1960:

|                         | Displaced |      |          |      |
|-------------------------|-----------|------|----------|------|
|                         | Persons   |      | Families |      |
|                         | 1959      | 1960 | 1959     | 1960 |
| In Clearance Areas:     |           |      |          |      |
| Houses unfit            | 10        | 16   | 3        | 6    |
| Not in Clearance Areas: |           |      |          |      |
| As a result of action   | 19        | 38   | 8        | 16   |
| under Section 17.       |           |      |          |      |

## CARAVANS:

The following are the details of licences issued during 1959 and 1960 under Section 269, Public Health Act, 1936:

|                                                                                                 | 1959 | 1960 |
|-------------------------------------------------------------------------------------------------|------|------|
| Number of annual licences granted authorising the use of moveable dwellings                     | 331  | 375  |
| Number of licences authorising persons to allow land to be used as sites for moveable dwellings | Nil  | Nil  |
| Number of applications to station and use moveable dwellings refused                            | 32   | 1    |
| Number of unlicensed caravans removed                                                           | Nil  | Nil  |

Since 1955 the number of annual licences issued has increased as follows:

| 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|------|------|------|------|------|------|
| 96   | 137  | 137  | 277  | 331  | 375  |

## II - WATER

Water supplies interest us in regard to the source of supply, accessibility and quantity and quality available to the population in the district. This district is also a gathering ground for water supplies to this part of Kent and we should keep ourselves informed of the possibilities of these becoming polluted.

### SOURCES OF SUPPLY AND ACCESSIBILITY

#### Piped supplies into houses

The position at 31/3/60 and 31/3/61 was approximately as follows:

|                                                      | <u>Parish</u>  | 1959          |               | 1960          |               |
|------------------------------------------------------|----------------|---------------|---------------|---------------|---------------|
|                                                      |                | <u>Houses</u> | <u>Totals</u> | <u>Houses</u> | <u>Totals</u> |
| Metropolitan Water Board supply                      | Darenth        | 849           |               | 850           |               |
|                                                      | Crockenhill    | 443           |               | 444           |               |
|                                                      | Eynsford       | 525           |               | 536           |               |
|                                                      | Farningham     | 430           |               | 437           |               |
|                                                      | Horton Kirby   | 708           |               | 706           |               |
|                                                      | Southfleet     | 354           |               | 377           |               |
|                                                      | Stone          | 2,105         |               | 2,158         |               |
|                                                      | Sutton-at-Hone | 991           |               | 1,040         |               |
|                                                      | Swanley        | 3,474         |               | 3,667         |               |
|                                                      | Wilmington     | 1,949         |               | 2,016         |               |
|                                                      |                |               | 11,828        |               | 12,231        |
| Mid Kent Water Company supply                        | Ash            | 291           |               | 296           |               |
|                                                      | Fawkham        | 170           |               | 176           |               |
|                                                      | Hartley        | 742           |               | 751           |               |
|                                                      | Longfield      | 571           |               | 576           |               |
|                                                      | Southfleet     | 194           |               | 194           |               |
|                                                      | West Kingsdown | 822           |               | 888           |               |
|                                                      |                |               | 2,790         |               | 2,881         |
| Lullingstone Estate supply                           | Eynsford       | 65)           |               | 65)           |               |
| Houses on supply of Hospital                         | Darenth        | 8)            |               | 8)            |               |
| Clement House well                                   | Sutton-at-Hone | 9)            |               | 9)            |               |
| 1 house supplied by laundry well, Barn End Lane      | Wilmington     | 1)            | 84            | 1)            | 84            |
| 1 house supplied by well at A.P.C.M. clay pit, Bean  | Stone          | 1)            |               | 1)            |               |
| <u>Supplies not piped into houses</u>                |                |               |               |               |               |
| Domestic wells, Clement St. (see below re. quantity) | Sutton-at-Hone | 12)           |               | 12)           |               |
| Rainwater tanks                                      | West Kingsdown | 7)            |               | 5)            |               |
|                                                      | Darenth        | 1)            | 29            | 1)            | 27            |
| Tanks                                                | Farningham     | 2)            |               | 2)            |               |
|                                                      | Horton Kirby   | 1)            |               | 1)            |               |
| Standpipe (M.W.B.)                                   | Horton Kirby   | 6)            |               | 6)            |               |
|                                                      |                |               | 14,731        |               | 15,223        |

#### Piped supplies into hospitals

|                                            |         |                                                     |
|--------------------------------------------|---------|-----------------------------------------------------|
| Metropolitan Water Board                   | Stone   | Stone House Hospital (Pop. 500)                     |
|                                            | Swanley | Westminster Auxiliary Hospital (Parkwood) (Pop. 81) |
| Metropolitan Water Board and hospital well | Darenth | Darenth Park and Mabledon Hospitals (Pop. 2,250)    |

# WATER (continued)

## QUANTITY

Supplies by the Metropolitan Water Board and the Mid Kent Water Company for domestic purposes are abundant. The quantity supplied by the Lullingstone Park well and Clement House well is satisfactory. The supplies dependent on pump and/or bucket in certain wells in Clement Street, namely: Whiffens Cottages and Ayres Cottages, are insufficient, and the practice initiated in 1956, of taking M.W.B. water to these houses by road was continued during the whole of 1959 and 1960. The cost for 1959-60 was £450 and the provisional figure for 1960-61 is £463.

The quantity available by rainwater tanks generally meets the householders' requirements but in exceptionally dry weather it may be that water is available from neighbours with main supplies.

## QUALITY

In the following analyses, with the exception of M.W.B., the number of E. coli type 1 per 100 ml. in the bacteriological analyses and albuminoid ammonia in parts per million in the chemical analyses are used to summarise the results of sampling.

### Bacteriological Analyses

|                                                                                    | 1959           |                       | 1960           |                       |
|------------------------------------------------------------------------------------|----------------|-----------------------|----------------|-----------------------|
|                                                                                    | No. of Samples | E.coli type 1         | No. of Samples | E.coli type 1         |
| <u>Metropolitan Water Board</u>                                                    |                |                       |                |                       |
| Raw Water:                                                                         | 2,673          | for results see table | 2,056          | for results see table |
| Treated Water:                                                                     | 2,391          | - ditto -             | 1,885          | - ditto -             |
| <u>Mid Kent Water Company</u>                                                      |                |                       |                |                       |
| Hartley Pumping Station                                                            |                |                       |                |                       |
| Raw Water:                                                                         | 11             | None                  | 9              | None                  |
|                                                                                    | 1              | 5                     | 1              | 3                     |
| Treated Water:                                                                     | 10             | None                  | 11             | None                  |
| <u>Hospital Well at Darenth Park</u>                                               |                |                       |                |                       |
| taken and analysed by hospital laboratory                                          | 24             | None                  | 36             | None                  |
|                                                                                    |                |                       | 99             | max. c.form 14        |
| <u>Stone House</u> - taken and analysed by hospital laboratory                     | None           | None                  | 23             | None                  |
| <u>Mabledon Hospital</u> - taken and analysed by hospital laboratory               | None           | None                  | 42             | None                  |
| <u>The following samples were taken by the Council's Public Health Inspectors:</u> |                |                       |                |                       |
| <u>Lullingstone Estate Well</u>                                                    |                |                       |                |                       |
| Treated Water                                                                      | 3              | None                  | 2              | None                  |
|                                                                                    | 1              | 18                    | 1              | 1                     |
|                                                                                    | 1              | 35                    | 1              | 5                     |
| <u>Eight houses supplied from Darenth Park Hospital supply</u>                     | 3              | None                  | None           | None                  |

# WATER (continued)

## Bacteriological Analyses (cont'd)

|                                                                                 | 1959             |               | 1960             |               |
|---------------------------------------------------------------------------------|------------------|---------------|------------------|---------------|
|                                                                                 | No. of Samples   | E.coli type 1 | No. of Samples   | E.coli type 1 |
| One house supplied from clay pits well, Stone (raw)                             | 1                | None          | No samples taken |               |
| Nine houses supplied from well at Clement House (raw)                           | No samples taken |               | No samples taken |               |
| One house supplied by laundry well, Barn End Lane, Wilmington                   | 1                | 5             | No samples taken |               |
| Twelve houses supplied by pump and/or bucket from wells in Clement Street (raw) | No samples taken |               | 3<br>1           | None<br>5     |
| Houses supplied by rainwater tanks at W. Kingsdown & Darenth                    | No samples taken |               | No samples taken |               |

## Chemical Analyses

|                                               | 1959             |                          | 1960           |                          |
|-----------------------------------------------|------------------|--------------------------|----------------|--------------------------|
|                                               | No. of Samples   | Albuminoid Ammonia       | No. of Samples | Albuminoid Ammonia       |
| <u>Metropolitan Water Board</u><br>Raw Water: | 39               | for results<br>see table | 46             | for results<br>see table |
| <u>Mid Kent Water Company</u><br>Raw Water:   | 3                | None                     | 3              | None                     |
| Treated Water:                                | No samples taken |                          | 1              |                          |

## SWIMMING POOLS

There were two open air swimming pools available to the public during these two years. The practice is to sample each pool at the shallow and deep ends. All are bacteriological samples.

Manor House - In 1959 8 pairs of samples were taken, results of 6 pairs of samples 0, in the remaining 2 pairs one sample from the shallow end and one from the deep end showed 1.

In 1960 6 pairs of samples were taken, results of 4 pairs of samples 0, one pair showed 180+, in the remaining pair one sample from the deep end showed 1.

Woodlands - In 1959 8 pairs of samples were taken, results of 5 pairs of samples 0, one pair showed 13, in the remaining two pairs one sample from the deep end and one sample from the shallow end showed 1.

In 1960 6 pairs of samples were taken, results of 4 pairs of samples showed 0, one pair showed 1 and in the remaining pair one sample from the shallow end showed 1 and the other sample from the deep end showed 8.

Hextable Special School - One pair of samples were taken in 1959 and they showed 0.

## BACTERIOLOGICAL RESULTS - METROPOLITAN WATER BOARD

Before Treatment

1959

| Well              | No. of samples | Plate count per ml.  |                 | Coliform count                |                   | Escherichia coli count        |                   |
|-------------------|----------------|----------------------|-----------------|-------------------------------|-------------------|-------------------------------|-------------------|
|                   |                | 20-24 hours at 37°C. | 3 days at 22°C. | % samples negative in 100 ml. | Count per 100 ml. | % samples negative in 100 ml. | Count per 100 ml. |
| Darenth           | 146            | 0.2                  | 3               | 96.58                         | 0.1               | 100                           | -)                |
| Darenth borehole  | 219            | 0.1                  | 56              | 86.76                         | 0.3               | 99.09                         | -)                |
| Dartford          | 242            | 0.1                  | 15              | 100                           | -                 | 100                           | -                 |
| Eynsford          | 229            | 0.1                  | 9               | 81.22                         | 1.4               | 99.13                         | -)                |
| Eynsford borehole | 175            | 0.1                  | 3               | 100                           | -                 | 100                           | -)                |
| Green St. Green   | 254            | 0.1                  | 4               | 93.70                         | 0.3               | 96.46                         | 0.1               |
| Horton Kirby No.1 | 132            | 0.3                  | 26              | 96.97                         | 0.2               | 99.24                         | -)                |
| Horton Kirby No.2 | 108            | -                    | 2               | 98.15                         | -                 | 99.07                         | -)                |
| Southfleet        | 130            | 0.8                  | 104             | 92.31                         | 0.2               | 97.70                         | -                 |
| Wilmington No.1   | 137            | 0.7                  | 44              | 75.91                         | 0.3               | 95.62                         | -)                |
| Wilmington No.2   | 152            | 2.0                  | 95              | 86.18                         | 0.2               | 96.05                         | 0.1)              |

1960

|                   |     |     |     |       |     |       |      |
|-------------------|-----|-----|-----|-------|-----|-------|------|
| Darenth           | 174 | 0.1 | 4   | 86.21 | 0.4 | 93.10 | 0.2  |
| Dartford          | 239 | -   | 6   | 100   | -   | 100   | -    |
| Eynsford No.1     | 197 | -   | 74  | 71.07 | 1.2 | 96.95 | 0.1) |
| Eynsford No.2     | 140 | -   | 3   | 98.57 | -   | 100   | -)   |
| Green St. Green   | 251 | 0.5 | 15  | 80.88 | 1.0 | 89.24 | 0.3  |
| Horton Kirby No.1 | 216 | 0.2 | 105 | 92.13 | 0.7 | 95.37 | 0.4) |
| Horton Kirby No.2 | 150 | 0.3 | 14  | 98.67 | -   | 100   | -)   |
| Southfleet        | 214 | 0.8 | 35  | 96.26 | 0.1 | 100   | -    |
| Wilmington No.2   | 249 | 0.1 | 45  | 94.38 | 0.1 | 99.20 | -    |

From each source of supply a similar number of samples of treated water was taken. Over 99% were negative for coliforms and 100% were negative for E. coli.

CHEMICAL RESULTS - METROPOLITAN WATER BOARD  
(Milligrammes per litre)

1959

| Well            | No. of samples | Ammonia Nitrogen | Albuminoid Nitrogen | Nitrate Nitrogen | Chlorides as Chlorine | Oxygen absorbed in 4 hrs at 27°C. | Hardness (Total) | Hardness (non-carb.) | pH. Value | Fluoride as Fluorine | Conductivity, reciprocal megohms |
|-----------------|----------------|------------------|---------------------|------------------|-----------------------|-----------------------------------|------------------|----------------------|-----------|----------------------|----------------------------------|
| Darenth         | 6              | .010             | .024                | 5.6              | 17                    | 0.08                              | 266              | 36                   | 7.2       |                      | 500                              |
| Dartford        | 4              | .012             | .029                | 4.9              | 21                    | 0.08                              | 272              | 52                   | 7.2       |                      | 525                              |
| Eynsford        | 8              | .009             | .026                | 4.1              | 16                    | Nil                               | 258              | 34                   | 7.2       |                      | 475                              |
| Green St. Green | 4              | .010             | .025                | 7.0              | 17                    | 0.08                              | 280              | 40                   | 7.2       | Not given            | 525                              |
| Horton Kirby    | 4              | .006             | .020                | 4.9              | 17                    | 0.10                              | 266              | 48                   | 7.3       |                      | 500                              |
| Southfleet      | 3              | .009             | .025                | 6.0              | 18                    | 0.06                              | 286              | 36                   | 7.1       |                      | 525                              |
| Wilmington      | 5              | .012             | .026                | 8.5              | 22                    | 0.08                              | 288              | 58                   | 7.1       |                      | 550                              |

1960

|                 |   |      |      |     |    |      |     |    |     |      |     |
|-----------------|---|------|------|-----|----|------|-----|----|-----|------|-----|
| Darenth         | 6 | .011 | .022 | 5.5 | 17 | 0.06 | 268 | 40 | 7.2 | 0.2  | 500 |
| Dartford        | 5 | .017 | .031 | 5.2 | 20 | 0.08 | 274 | 50 | 7.2 | 0.15 | 525 |
| Eynsford        | 7 | .013 | .020 | 4.1 | 16 | 0.06 | 258 | 32 | 7.3 | 0.2  | 475 |
| Green St. Green | 5 | .015 | .024 | 7.1 | 18 | 0.04 | 280 | 42 | 7.1 | 0.1  | 500 |
| Horton Kirby    | 6 | .012 | .022 | 4.5 | 17 | 0.04 | 258 | 38 | 7.2 | 0.15 | 475 |
| Southfleet      | 3 | .011 | .013 | 6.2 | 19 | 0.02 | 286 | 32 | 7.0 | 0.15 | 525 |
| Wilmington      | 3 | .012 | .028 | 7.8 | 21 | 0.10 | 284 | 54 | 7.1 | 0.15 | 550 |

### III - DRAINAGE

An account of the drainage and sewerage of this district is given in our previous reports.

During the period covered by this report all the 219 dwellings built by the Council and 833 of the 1,067 dwellings built by private enterprise were connected to the sewer. The remaining 234 dwellings built by private enterprise were connected to cesspools.

The effluent from Stone Outfall Works was sampled by the Port of London Authority on one occasion in 1959 and on four occasions in 1960. The results were as follows:-

| <u>1959</u>                       |                                                                            |                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Albuminoid Ammonia<br>p.p.100,000 | Oxygen absorbed from acid<br>permanganate in 3 hrs at<br>98°F. p.p.100,000 | Observations                                                                                         |
| 0.42                              | 5.10                                                                       | Satisfactory sample.                                                                                 |
| <u>1960</u>                       |                                                                            |                                                                                                      |
| 0.85                              | 4.00                                                                       | Satisfactory judged on<br>P.L.A. Impurity Figure<br>Standard.                                        |
| 0.92                              | 6.80                                                                       | Unsatisfactory. Offen-<br>sive with sulphuretted<br>hydrogen.                                        |
| 0.80                              | 4.10                                                                       | Unsatisfactory, based on<br>5 day Biological Oxygen<br>Demand.                                       |
| 0.92                              | 10.2                                                                       | Unsatisfactory. Sample<br>offensive with sulphuret-<br>ted hydrogen when re-<br>ceived for analysis. |

The following are the details of the work initiated by the Council's Public Health Inspectors:

|                                                              | 1959 | 1960 |
|--------------------------------------------------------------|------|------|
| Pail closets abolished and property connected<br>to sewer    | 1    | -    |
| Pail closets abolished and property connected<br>to cesspool | -    | -    |
| Cesspools abolished and property connected<br>to sewer       | 10   | 22   |
| Drainage relaid                                              | -    | -    |
| Drains repaired                                              | 14   | 18   |
| Drains cleared                                               | 41   | 28   |
| Covers renewed to inspection chambers and<br>cesspools       | 5    | 3    |
| Water tests applied to drains                                | 36   | 42   |
| Smoke tests applied to drains                                | 13   | 3    |

The following two sewer extensions were carried out by the Engineer & Surveyor's Department:

Bower Road, Hextable, to serve 9 properties - estimated cost £375.

Victoria Hill Road, Hextable, to serve 5 properties - estimated cost £290.

## DRAINAGE (Continued)

The Council carried out the following drainage work under Section 39 of the Public Health Act, 1936, in default of the owners, by engaging a private contractor, in 1959:-

Removing a blockage in a private sewer at London Road, Stone, which affected the sanitary accommodation to 3 factories. - Cost £357.

Repairing a defective private drain at a property at London Road, Swanley. - Cost £29.

Removing a blockage affecting 9 houses at Charles Street, Stone. - Cost £9.

Repairing a public sewer (Section 24, Public Health Act, 1936) at Lower Road, Hextable, affecting 5 houses. - Cost £13.

The Council, using their powers under Section 47 of the Public Health Act, 1936, contributed towards the cost of converting existing closets without flushing facilities to proper water closets at the following properties:-

| <u>1959</u>                    | <u>Total cost<br/>of work</u> | <u>Local Authority's<br/>contribution</u> |
|--------------------------------|-------------------------------|-------------------------------------------|
| 2/6, Ingress Terrace, Betsham. | £75.                          | £37. 10. 0.                               |
| 11/15, Bower Road, Hextable.   | £28. 10. 0.                   | £14. 0. 0.                                |

At the end of these two years the sanitary accommodation and drainage was approximately as follows:

|                                                                                       |                      |
|---------------------------------------------------------------------------------------|----------------------|
| Dwellings with water closets discharging into the sewer                               | 11,096               |
| Dwellings with water closets discharging into septic tanks                            | 181                  |
| Dwellings with water closets discharging into cesspools being emptied                 | 2,541                |
| Approx. number of dwellings with water closets discharging into cesspools not emptied | 1,374                |
| Dwellings provided with pail closets                                                  | 28                   |
| Dwellings provided with privies                                                       | 3                    |
| TOTAL (i.e. number of dwellings at 31/3/61)                                           | <u><u>15,223</u></u> |

### Hartley/Longfield/New Barn Sewerage Scheme:

The work on this new sewer was commenced in March, 1960, at an estimated cost of £144,212. As work progressed the properties connected to the sewer were reported to the Public Health Committee month by month.

# IV - FOOD

MILK: Regulations require this Council to register (i) dairies not being dairy farms and (ii) distributors, i.e. dairymen other than dairy farmers. The Council also have the duty to grant or refuse to grant, dealers' licences to distributors authorising the use of a special designation in relation to milk sold from premises in this district. Those holding dealers' licences for trade from premises outside this district can be granted supplementary licences authorising them to use a designation in relation to milk sold in this district.

The following are the figures for registrations and licences during recent years:

|                             | 1957 | 1958 | 1959 | 1960 |
|-----------------------------|------|------|------|------|
| Dairies registered          | 6    | Nil  | Nil  | Nil  |
| Distributors registered     | 35   | 33   | 35   | 31   |
| Dealers' licences for:      |      |      |      |      |
| Tuberculin tested milk      | 13   | 12   | 12   | 11   |
| Pasteurised milk            | 15   | 14   | 15   | 13   |
| Sterilised milk             | 20   | 21   | 22   | 20   |
| Supplementary licences for: |      |      |      |      |
| Tuberculin tested milk      | 6    | 6    | 6    | 5    |
| Pasteurised milk            | 5    | 6    | 7    | 6    |
| Sterilised milk             | 7    | 7    | 8    | 7    |

Sampling for designation or infection tests:

6 samples were submitted to the County Laboratory for designation tests and none for infection tests in 1959. In 1960 no samples were submitted.

| <u>Grade of Milk</u>               | <u>Samples Satisfactory</u> | <u>Samples Unsatisfactory</u> |
|------------------------------------|-----------------------------|-------------------------------|
| Tuberculin tested                  | 2                           | Nil                           |
| Tuberculin tested<br>(Pasteurised) | 2                           | Nil                           |
| Pasteurised                        | 2                           | Nil                           |
| Sterilised                         | Nil                         |                               |
| TOTALS                             | 6                           | Nil                           |

Sampling for Adulteration:

50 samples of milk were taken by the County Sampling Officers in 1959 and 66 samples in 1960. A report, kindly supplied by the County Chief Inspector, Weights and Measures, shows that with the exception of the following, all these samples were genuine.

| <u>1959</u>                                       | <u>Analysis</u>                                                               | <u>Action Taken</u>                                                                                                        |
|---------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Milk (sample submitted by a member of the public) | Not of quality demanded.<br>Mould growths present.                            | Prosecution taken. Fine £5.                                                                                                |
| <u>1960</u>                                       |                                                                               |                                                                                                                            |
| Milk<br>5 samples                                 | These samples were "Appeal to Cow" samples and showed small fat deficiencies. | The producer took advice on the matter with the object of effecting an improvement. There have been no further complaints. |

# FOOD (continued)

## ICE CREAM:

|                                                                 |      |
|-----------------------------------------------------------------|------|
|                                                                 | 1959 |
| Premises previously registered for the sale of ice cream        | 127  |
| Premises previously registered for the manufacture of ice cream | Nil  |
| Premises registered for the sale of ice cream in 1959           | 12   |
| Premises registered for the manufacture of ice cream in 1959    | Nil  |

There were no additions to the register in 1960.

3 samples were obtained and examined for cleanliness by the methylene blue test in 1960, there was none in 1959.

|           |       |
|-----------|-------|
| Grade I   | 2     |
| Grade II  | 1     |
| Grade III | -     |
| Grade IV  | -     |
|           | <hr/> |
|           | 3     |
|           | <hr/> |

4 samples of ice cream were taken by the County Sampling Officers during 1959 and 2 during 1960, all were reported on as genuine.

## MEAT:

|                                        |      |      |      |      |
|----------------------------------------|------|------|------|------|
|                                        | 1957 | 1958 | 1959 | 1960 |
| The number of slaughtermen licensed    | 22   | 24   | 21   | 14   |
| The number of slaughterhouses licensed | 6    | 6    | 5    | 4    |

During this period 4 slaughterhouses were in use and by far the greatest amount of slaughtering is done at one slaughterhouse.

| Number of Animals killed |                 |        |       |       |        |
|--------------------------|-----------------|--------|-------|-------|--------|
| Year                     | Cattle inc.Cows | Calves | Sheep | Pigs  | Total  |
| 1956                     | 638             | 436    | 1,983 | 5,231 | 8,288  |
| 1957                     | 597             | 358    | 3,679 | 6,595 | 11,229 |
| 1958                     | 509             | 256    | 1,428 | 5,383 | 7,576  |
| 1959                     | 375             | 200    | 1,836 | 2,549 | 4,960  |
| 1960                     | 429             | 320    | 2,162 | 2,869 | 5,780  |

By month, the number of animals killed and inspected in 1959 and 1960 was:

| Month         | Cows |     | Heifers |     | Steers |     | Calves |     | Sheep |     | Pigs |     | Bulls |     |
|---------------|------|-----|---------|-----|--------|-----|--------|-----|-------|-----|------|-----|-------|-----|
|               | '59  | '60 | '59     | '60 | '59    | '60 | '59    | '60 | '59   | '60 | '59  | '60 | '59   | '60 |
| January       | 22   | 7   | 11      | 14  | 13     | 10  | 14     | 32  | 140   | 129 | 271  | 214 | 1     | 2   |
| February      | 20   | 4   | 16      | 13  | 4      | 13  | 16     | 22  | 99    | 102 | 241  | 159 | -     | -   |
| March         | 17   | 3   | 12      | 20  | 7      | 17  | 19     | 29  | 112   | 76  | 295  | 283 | -     | -   |
| April         | 16   | 2   | 5       | 12  | 12     | 25  | 18     | 35  | 117   | 99  | 237  | 213 | -     | -   |
| May           | 8    | 4   | 4       | 16  | 11     | 21  | 13     | 26  | 109   | 160 | 172  | 216 | -     | -   |
| June          | 6    | -   | 9       | 15  | 11     | 8   | 17     | 23  | 156   | 203 | 149  | 147 | 1     | -   |
| July & August | 11   | 8   | 15      | 42  | 15     | 24  | 31     | 38  | 313   | 505 | 214  | 346 | -     | -   |
| September     | 5    | 6   | 10      | 15  | 11     | 14  | 14     | 27  | 240   | 203 | 183  | 246 | 1     | -   |
| October       | 10   | 8   | 11      | 15  | 7      | 18  | 17     | 46  | 227   | 246 | 194  | 310 | -     | -   |
| November      | 3    | 3   | 16      | 21  | 13     | 9   | 20     | 27  | 156   | 250 | 176  | 230 | -     | -   |
| December      | 3    | 2   | 20      | 14  | 17     | 24  | 21     | 15  | 167   | 189 | 417  | 505 | 1     | -   |

# FOOD (continued)

## MEAT (cont'd)

The following are the details regarding meat inspection by the Council's Public Health Inspectors:

Summary of animals killed and carcasses inspected:

| Particulars   | Cattle<br>excluding<br>Cows |      | Cows |      | Calves |      | Sheep |       | Pigs  |       |
|---------------|-----------------------------|------|------|------|--------|------|-------|-------|-------|-------|
|               | 1959                        | 1960 | 1959 | 1960 | 1959   | 1960 | 1959  | 1960  | 1959  | 1960  |
|               |                             |      |      |      |        |      |       |       |       |       |
| Number killed | 254                         | 380  | 121  | 47   | 200    | 320  | 1,836 | 2,162 | 2,549 | 2,869 |
| " inspected   | 254                         | 380  | 121  | 47   | 200    | 320  | 1,836 | 2,162 | 2,549 | 2,869 |

Carcasses and offal condemned in whole or in part:

### (1) All diseases except Tuberculosis and Cysticercosis

|                                                                                      |     |      |      |      |     |     |     |     |      |      |
|--------------------------------------------------------------------------------------|-----|------|------|------|-----|-----|-----|-----|------|------|
| Whole carcass rejected                                                               | Nil | Nil  | 3    | 1    | 2   | 3   | 18  | 3   | 15   | 16   |
| Carcass of which some part or organ was rejected                                     | 22  | 49   | 29   | 6    | Nil | 2   | 55  | 14  | 298  | 307  |
| Percentage of number inspected with disease other than tuberculosis or cysticercosis | 8.6 | 12.8 | 26.4 | 14.8 | 1   | 1.5 | 3.9 | 0.7 | 12.2 | 11.2 |

### (2) Tuberculosis only

|                                                  |     |     |     |     |     |     |     |     |      |     |
|--------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| Whole carcass rejected                           | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil  | Nil |
| Carcass of which some part or organ was rejected | 2   | 1   | Nil | Nil | Nil | Nil | Nil | Nil | 27   | 37  |
| Percentage of number inspected                   | 1.6 | 0.2 | Nil | Nil | Nil | Nil | Nil | Nil | 1.05 | 1.2 |

### (3) Cysticercosis

|                                                  |     |     |     |     |     |     |     |     |     |     |
|--------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Carcass of which some part or organ was rejected | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
|--------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Specimens from 7 carcasses were submitted to the hospital pathological laboratory and the following are the positive findings:-

Bullock: Retro-pharyngeal lymph node. Lymph node contains old granulomatous foci with calcified concretions and some giant cells of Langhans type. Appearances suggest quiescent T.B. rather than actino, but it is not possible to be dogmatic. No tubercle seen.

# FOOD (continued)

## MEAT (cont'd)

- Sheep: Spleen. This looks like a "reticulosis", there is no evidence of infection. According to Willis, leukaemia and non-leukaemic lymphoblastomas account for 15% of malignant tumours of sheep and I think this spleen undoubtedly falls into this group.
- Sow: Throat. Macroscopically: Part of pale, soft, fleshy mass at least 6 cms diam. attached to neck. Central area of haemorrhage.
- Microscopically: Lymphosarcoma of throat. Lymphoid tumours are said to account for one third of all malignant growths in pigs (Willis).
- Cow: Retro-pharyngeal gland. Macroscopic: Partly opened lymph node about 5 x 3 x 2 cms. Firm yellow mass occupies part of the node. No capsule.
- Microscopic: Actinomycotic granuloma with typical colonies of actinomycetes.

The following items were voluntarily surrendered from shops etc.:

| 1959                                 | 1960                           |
|--------------------------------------|--------------------------------|
| 324 lbs. of beef                     | 158 $\frac{3}{4}$ lbs. poultry |
| 1 9 lb. leg of pork                  | 272 lbs. meat                  |
| 10 lbs. of pigs' spleens             | 8 lbs. kidney                  |
| 10 lbs. of New Zealand lambs' livers | 18 lbs. pork                   |
| 1 8 lb. English turkey.              | 22 lbs. pigs' melts.           |

## OTHER FOODS:

The following items were surrendered from shops and canteens as unfit for human consumption:

| 1959                                          | 1960                                              |
|-----------------------------------------------|---------------------------------------------------|
| 80 tons of grapes                             | 5 tins of corned beef, total weight 36 lbs. 7 oz. |
| 16 $\frac{3}{4}$ lbs. of tinned corned beef   | Two 4 lb. tins of chopped pork                    |
| 28 lbs. of tinned chopped pork                | 5 tins of tomatoes, total weight 4 lbs.           |
| 31 lbs. of various tinned soups               | Three 2 lb. tins pork luncheon meat               |
| 11 $\frac{1}{2}$ lbs. of tinned ham           | 1 tin condensed milk                              |
| 10 lbs. of pickles                            | Ten 9 lb. 4 oz. tins of apricot pulp.             |
| 6 lbs. of tinned puddings                     |                                                   |
| 10 $\frac{1}{2}$ oz. of tinned Vienna sausage |                                                   |
| One veal, ham and egg pie                     |                                                   |

An account of a food poisoning incident associated with cream cakes is given in the part of this report which concerns communicable disease.

## Sampling:

In addition to the samples of milk and ice cream mentioned above, the County Sampling Officers took the following samples:

| 1959             | 1960             |
|------------------|------------------|
| Drugs 14         | Drugs 14         |
| Spirits 10       | Spirits 10       |
| Other samples 75 | Other samples 77 |
| <hr/> 99         | <hr/> 101        |

All were genuine with the exception of the following:

# FOOD (continued)

## Sampling (cont'd)

| <u>1959</u><br><u>Sample of</u> | <u>Analysis</u>                    | <u>Action Taken</u>                |
|---------------------------------|------------------------------------|------------------------------------|
| Smoked Pork Sausages            | Ingredients stated in wrong order. | Makers informed and label amended. |

The under-mentioned samples were taken as a result of complaints by purchasers:

|                          |                                |                         |
|--------------------------|--------------------------------|-------------------------|
| Garden Peas (Canned)     | Contained a small green snail. | Written caution issued. |
| Veal & Ham Pie with Egg. | Extensive mould growth.        | Written caution issued. |

## 1960

|                              |                                                         |                                              |
|------------------------------|---------------------------------------------------------|----------------------------------------------|
| Condensed Milk (Unsweetened) | Total solids 30.5%. (Minimum 31%)                       | Makers notified.                             |
| Condensed Milk (Sweetened)   | Deficient in fat and total milk solids.                 | Makers notified.                             |
| Blackcurrant Jam             | Soluble solids 66.9%, probable fruit 20% (Minimum 25%). | Makers warned.                               |
| Pork Sausages                | Meat 62%. Slightly low.                                 | Maker informed. Further sample satisfactory. |

The following sample was taken following a complaint made to the Health Department of Dartford Rural District Council:-

|       |                                                                                                                                                                                                |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bread | It consisted of two slices of white bread. Between them were parts of a dressing consisting of pieces of adhesive plaster, lint and other woven material. There was a blood stain on the lint. |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Proceedings were taken and the company was fined £35. plus £7.7.0. advocate's fee.

## FOOD PREPARATION PREMISES

Visits made to food premises and notices issued against occupiers to comply with the requirements of the Food Hygiene Regulations are as follows:

|      | <u>Visits</u> | <u>Notices issued</u> |
|------|---------------|-----------------------|
| 1959 | 169           | 18                    |
| 1960 | 78            | 4                     |

# V - RODENT CONTROL, DISINFECTION & DISINFESTATION

The following is a summary of the work carried out by the Council's Rodent Operator:

|                                                             | <u>1959</u> | <u>1960</u> |
|-------------------------------------------------------------|-------------|-------------|
| RODENTS:                                                    |             |             |
| Number of complaints received                               | 209         | 188         |
| Infestations found:                                         |             |             |
| Rats, major                                                 | 2           | -           |
| Rats, minor                                                 | 200         | 148         |
| Mice, major                                                 | -           | -           |
| Mice, minor                                                 | 21          | 35          |
| Infestations found as a result of a survey:                 |             |             |
| Rats, major                                                 | 1           | 3           |
| Rats, minor                                                 | 7           | 20          |
| Mice, major and minor                                       | -           | -           |
| Business premises treated (except agricultural)             | 36          | 27          |
| Private dwellings treated                                   | 808         | 285         |
| Agricultural properties surveyed                            | 56          | 3           |
| Agricultural properties treated                             | 5           | 15          |
| Total number of treatments:                                 | 849         | 327         |
| Estimated kill, Ministry of Food formula:                   |             |             |
| Rats                                                        | 950         | 1,160       |
| Dead bodies found:                                          |             |             |
| Rats                                                        | 1,234       | 994         |
| Mice                                                        | 115         | 115         |
| By traps or other means:                                    |             |             |
| Rats                                                        | 45          | 15          |
| Mice                                                        | -           | -           |
| Sewer treatment:                                            |             |             |
| Manholes tested                                             | 18          | -           |
| Infestations found                                          | 10          | -           |
| Infestations treated                                        | 10          | -           |
| DISINFESTATION:                                             |             |             |
| Council houses disinfested of bed bugs                      | 2           | -           |
| Private dwellings - ditto -                                 | 1           | 1           |
| Council houses disinfested of fleas                         | 4           | -           |
| Private dwellings - ditto -                                 | 4           | 3           |
| Houses disinfested of ants                                  | 8           | 13          |
| Houses disinfested of wood-worm                             | -           | -           |
| Houses disinfested of beetles                               | 1           | 3           |
| Houses disinfested of swarms of flies                       | 14          | 11          |
| Houses disinfested of swarms of bees                        | 2           | 5           |
| Wasps nests destroyed                                       | 224         | 145         |
| Houses disinfested of silver fish                           | -           | -           |
| Houses disinfested of cockroaches                           | -           | 1           |
| Houses disinfested of earwigs                               | -           | 1           |
| DISINFECTION:                                               |             |             |
| Houses, bedding, etc., disinfected after infectious disease | 1           | 5           |

## VI - PLACES OF WORK

### FACTORIES:

Under the Factories Acts the district council enforces the following Sections: (a) section 7 (sanitary conveniences) in all factories (b) sections 1,2,3,4,6 (cleanliness, overcrowding, temperature, ventilation and drainage of floors) in all factories where mechanical power is not used.

The following work was carried out by the Council's Public Health Inspectors:-

#### 1. INSPECTIONS UNDER PART I, FACTORIES ACT, 1937

| Premises                                                                                         | Number on register |      | Number of inspections |      | Number of written notices |      | Number of occupiers prosecuted |      |
|--------------------------------------------------------------------------------------------------|--------------------|------|-----------------------|------|---------------------------|------|--------------------------------|------|
|                                                                                                  | 1959               | 1960 | 1959                  | 1960 | 1959                      | 1960 | 1959                           | 1960 |
| i) Factories in which sections 1,2, 3,4 and 6 are to be enforced by the Local Authority          | 9                  | 9    | 4                     | 1    | -                         | -    | -                              | -    |
| ii) Factories not included in (i) in which s.7 is enforced by the Local Authority                | 114                | 111  | 27                    | 15   | 6                         | 2    | -                              | -    |
| iii) Other premises in which s.7 is enforced by Local Authority (excluding outworkers' premises) | 7                  | 22   | 2                     | 1    | -                         | -    | -                              | -    |
| Totals                                                                                           | 130                | 142  | 33                    | 17   | 6                         | 2    | -                              | -    |

#### 2. PARTICULARS OF DEFECTS FOUND:

| Particulars                                                | Number of defects found |      | Defects remedied |      | Referred to H.M. Inspector |      | Referred by H.M. Inspector |      | Number of prosecutions |      |
|------------------------------------------------------------|-------------------------|------|------------------|------|----------------------------|------|----------------------------|------|------------------------|------|
|                                                            | 1959                    | 1960 | 1959             | 1960 | 1959                       | 1960 | 1959                       | 1960 | 1959                   | 1960 |
| Section 1                                                  | -                       | -    | 1                | -    | -                          | -    | 1                          | -    | -                      | -    |
| Sections 2,3,4 and 6                                       | -                       | -    | -                | -    | -                          | -    | -                          | -    | -                      | -    |
| Section 7 (Sanitary conveniences)                          |                         |      |                  |      |                            |      |                            |      |                        |      |
| (a) Insufficient                                           | 1                       | -    | -                | -    | -                          | -    | -                          | -    | -                      | -    |
| (b) Unsuitable or defective                                | 1                       | 3    | -                | 2    | -                          | -    | -                          | 3    | -                      | -    |
| (c) Not separate for the sexes                             | -                       | -    | -                | -    | -                          | -    | -                          | -    | -                      | -    |
| (d) Other offences against the Acts (excluding outworkers) | -                       | -    | -                | -    | -                          | -    | -                          | -    | -                      | -    |
| Totals                                                     | 2                       | 3    | 1                | 2    | -                          | -    | 1                          | 3    | -                      | -    |

# PLACES OF WORK (continued)

## Outworkers:

|                                                                                                                                           | 1959 | 1960* |
|-------------------------------------------------------------------------------------------------------------------------------------------|------|-------|
| (a) Total number of outworkers notified to the Council by firms in the Dartford Rural District under Section 110 (1c) Factories Act, 1937 | 61   | 13    |
| (b) Total number of outworkers notified by Dartford Rural District Council to other Councils under Section 110 (2) Factories Act, 1937    | 1    | 17    |
| (c) Total number of outworkers notified to Dartford Rural District Council by other Councils, under Section 110 (2)                       | 33   | 94    |
| (d) Total number of outworkers employed in Dartford Rural District                                                                        | 93   | 90    |
| (e) Total number of inspections of workplaces under Section 111 (i) Factories Act, 1937                                                   | Nil  | Nil   |
| (f) Scheduled occupations followed by outworkers in Dartford Rural District                                                               |      |       |
| Making of wearing apparel                                                                                                                 | 19   | 12    |
| Making of boxes or other receptacles or parts thereof made wholly or partially of paper, cardboard, chip or similar material              | 45   | 23    |
| Making or filling of cosagues, Christmas crackers, Christmas stockings, or similar articles or parts of articles                          | 2    | 1     |
| Making of lampshades                                                                                                                      | 27   | 54    |

## SHOPS:

There are 360 shops, including licensed premises, in the rural area, as at 31st March, 1961. The total number of inspections during the period covered by this report by the Council's Public Health Inspectors of shops, other than food preparing premises, was as follows:-

| 1959 | 1960 |
|------|------|
| 49   | 25   |

\*A mill in Dartford Rural District now issues its outwork from its premises in Woolwich Metropolitan Borough and this accounts for the different pattern of figures.

